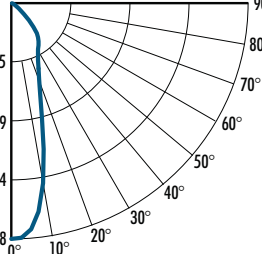


PHOTOMETRY

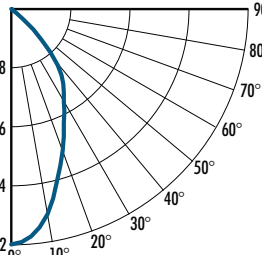
LHABLD612C025UE-DUN-B25-T40/LRB61W (1000lm, 25°, 4000K)

System Power: 8.9W		MULTIPLIERS		CANDELA TABULATION		FOOTCANDLE DISTRIBUTION			
Test Date:	5/4/2018								
Beam Angle 50%:	29.0°	Lumen	CCT			Height	Beam Diameter	Footcandle (FC)	
Field Angle 0%:	91.0°							Beam Center	Beam Edge
Color Temp. (CCT):	4000K	10000lm : 8.19	4000K : 1.00			6.0'	3.1'	61.61	28.28
CRI :	80	8000lm : 6.70	3500K : 0.99			8.0'	4.1'	34.66	15.91
Lumens Delivered:	1251.14	7000lm : 5.71	3000K : 0.98			10.0'	5.2'	22.2	10.18
CBCP:	2218	6000lm : 4.70	2700K : 0.94			12.0'	6.2'	15.4	7.07
Power Factor:	>0.90	5000lm : 3.91				14.0'	7.2'	11.3	5.19
		3500lm : 2.69	CRI						
		2500lm : 1.95	80 CRI : 1.00						
		1500lm : 1.39	90 CRI : 0.85						
		1000lm : 1.00	97 CRI : 0.76						
		Trim (Lensed): 0.75							

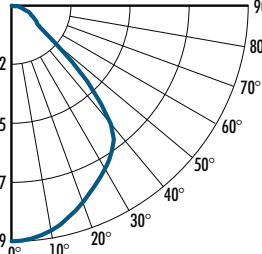
LHABLD612C025UE-DUN-B45-T40/LRB61W (1000lm, 45°, 4000K)

System Power: 8.9W		MULTIPLIERS		CANDELA TABULATION		FOOTCANDLE DISTRIBUTION			
Test Date: 5/4/2018									
Beam Angle 50%: 43.1°									
Field Angle 0%: 96.9°									
Color Temp. (CCT): 4000K									
CRI : 80									
Lumens Delivered: 1222.72									
CBCP: 1462.00									
Power Factor: >0.90									

LHABLD612C025UE-DUN-B60-T40/LRB61W (1000lm, 60°, 4000K)

System Power:	8.9W	MULTIPLIERS		CANDELA TABULATION		FOOTCANDLE DISTRIBUTION			
Test Date:	5/4/2018								
Beam Angle 50%:	53.1°	Lumen	CCT						
Field Angle 0%:	98.9°	10000lm : 8.12	4000K : 1.00			Height	Beam Diameter	Footcandle (FC)	
Color Temp. (CCT):	4000K	8000lm : 6.74	3500K : 0.99					Beam Center	Beam Edge
CRI :	80	7000lm : 5.76	3000K : 0.98			6.0'	6.0'	35.31	12.61
Lumens Delivered:	1225.88	6000lm : 4.74	2700K : 0.94			8.0'	8.0'	19.86	7.09
CBCP:	1271	5000lm : 3.95				10.0'	10.0'	12.7	4.54
Power Factor:	>0.90	3500lm : 2.71	CRI	12.0'	12.0'	8.8	3.15		
		2500lm : 1.97	80 CRI : 1.00	14.0'	14.0'	6.5	2.32		
		1500lm : 1.40	90 CRI : 0.85						
		1000lm : 1.00	97 CRI : 0.76						
		Trim (Lensed): 0.75							

LHABLD612C025UE-DUN-B90-T40/LRB61W (1000lm, 90°, 4000K)

System Power: 8.9W		MULTIPLIERS		CANDELA TABULATION		FOOTCANDLE DISTRIBUTION					
Test Date:	5/8/2018										
Beam Angle 50%:	88.3°	Lumen	CCT			Height		Beam Diameter	Footcandle (FC)		
Field Angle 0%:	126.2°									Beam Center	Beam Edge
Color Temp. (CCT):	4000K	10000lm : 8.04	4000K : 1.00			6.0'	11.6'	19.14	3.21		
CRI :	80	8000lm : 6.69	3500K : 0.99			8.0'	15.5'	10.77	1.81		
Lumens Delivered:	1275.2	7000lm : 5.71	3000K : 0.98			10.0'	19.4'	6.9	1.16		
CBCP:	689	6000lm : 4.70	2700K : 0.94			12.0'	23.3'	4.8	0.80		
Power Factor:	>0.90	5000lm : 3.91	CRI	14.0'	27.2'	3.5	0.59				
		3500lm : 2.69									
		2500lm : 1.95	80 CRI : 1.00								
		1500lm : 1.39	90 CRI : 0.85								
		1000lm : 1.00	97 CRI : 0.76								
		Trim (Lensed): 0.75									

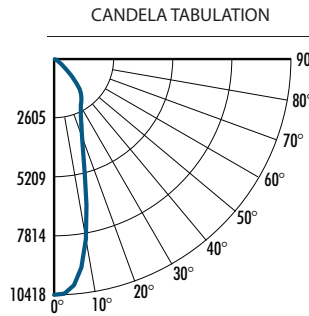
PHOTOMETRY

LHABLD650C085UE-DUN-B25-T40_LRB61W (6000lm, 25°, 4000K)

System Power:	50.7W
Test Date:	5/9/2018
Beam Angle 50%:	29.0°
Field Angle 0%:	90.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	5876.49
CBCP:	10418
Power Factor:	>0.90

MULTIPLIERS			
Lumen		CCT	
10000lm :	1.74	4000K :	1.00
8000lm :	1.43	3500K :	0.99
7000lm :	1.22	3000K :	0.98
6000lm :	1.00	2700K :	0.94
5000lm :	0.83		
3500lm :	0.57	CRI	
2500lm :	0.42	80 CRI :	1.00
1500lm :	0.29	90 CRI :	0.85
1000lm :	0.21	97 CRI :	0.76

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

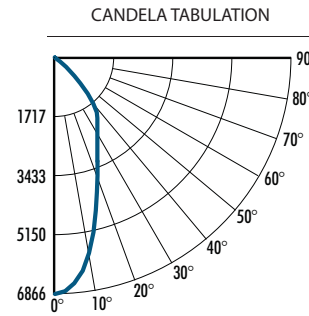
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	3.1'	289.39	132.79
8.0'	4.1'	162.78	74.69
10.0'	5.2'	104.2	47.80
12.0'	6.2'	72.3	33.20
14.0'	7.2'	53.2	24.39

LHABLD650C085UE-DUN-B45-T40/LRB61W (6000lm, 45°, 4000K)

System Power:	50.7W
Test Date:	5/9/2018
Beam Angle 50%:	43.1°
Field Angle 0%:	96.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	5743.09
CBCP:	6866
Power Factor:	>0.90

MULTIPLIERS			
Lumen		CCT	
10000lm :	1.75	4000K :	1.00
8000lm :	1.42	3500K :	0.99
7000lm :	1.22	3000K :	0.98
6000lm :	1.00	2700K :	0.94
5000lm :	0.83		
3500lm :	0.57	CRI	
2500lm :	0.42	80 CRI :	1.00
1500lm :	0.29	90 CRI :	0.85
1000lm :	0.21	97 CRI :	0.76

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

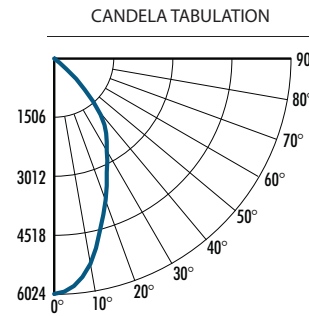
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	4.7'	190.72	81.47
8.0'	6.3'	107.28	45.83
10.0'	7.9'	68.7	29.33
12.0'	9.5'	47.7	20.37
14.0'	11.1'	35.0	14.96

LHABLD650C085UE-DUN-B60-T40/LRB61W (6000lm, 60°, 4000K)

System Power:	50.7W
Test Date:	5/9/2018
Beam Angle 50%:	53.1°
Field Angle 0%:	98.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	5805.17
CBCP:	6018
Power Factor:	>0.90

MULTIPLIERS			
Lumen		CCT	
10000lm :	1.72	4000K :	1.00
8000lm :	1.42	3500K :	0.99
7000lm :	1.22	3000K :	0.98
6000lm :	1.00	2700K :	0.94
5000lm :	0.83		
3500lm :	0.57	CRI	
2500lm :	0.42	80 CRI :	1.00
1500lm :	0.30	90 CRI :	0.85
1000lm :	0.21	97 CRI :	0.76

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

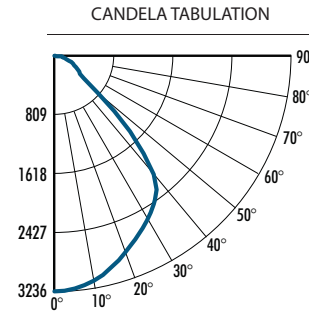
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	6.0'	167.17	59.73
8.0'	8.0'	94.03	33.60
10.0'	10.0'	60.2	21.50
12.0'	12.0'	41.8	14.93
14.0'	14.0'	30.7	10.97

LHABLD650C085UE-DUN-B90-T40/LRB61W (6000lm, 90°, 4000K)

System Power:	50.7W
Test Date:	5/9/2018
Beam Angle 50%:	88.3°
Field Angle 0%:	126.0°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	5988.51
CBCP:	3263
Power Factor:	>0.90

MULTIPLIERS			
Lumen		CCT	
10000lm :	1.71	4000K :	1.00
8000lm :	1.42	3500K :	0.99
7000lm :	1.22	3000K :	0.98
6000lm :	1.00	2700K :	0.94
5000lm :	0.83		
3500lm :	0.57	CRI	
2500lm :	0.42	80 CRI :	1.00
1500lm :	0.30	90 CRI :	0.85
1000lm :	0.21	97 CRI :	0.76

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	11.6'	90.64	15.06
8.0'	15.5'	50.98	8.47
10.0'	19.4'	32.6	5.42
12.0'	23.3'	22.7	3.77
14.0'	27.2'	16.6	2.77

PHOTOMETRY

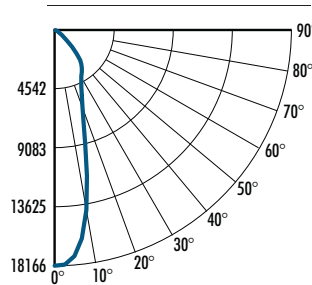
LHABLD6120C200UE-DUN-B25-T40/LRB61W (10000lm, 25°, 4000K)

System Power:	117.0W
Test Date:	6/26/2018
Beam Angle 50%:	29.0°
Field Angle 0%:	90.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	10247.4
CBCP:	18166
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
10000lm : 1.00	4000K : 1.00
8000lm : 0.82	3500K : 0.99
7000lm : 0.70	3000K : 0.98
6000lm : 0.57	2700K : 0.94
5000lm : 0.48	
3500lm : 0.33	CRI
2500lm : 0.24	80 CRI : 1.00
1500lm : 0.17	90 CRI : 0.85
1000lm : 0.12	97 CRI : 0.76

Trim (Lensed): 0.75

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	3.1'	284.65	231.55
8.0'	4.1'	160.12	130.25
10.0'	5.2'	102.5	83.36
12.0'	6.2'	71.2	57.89
14.0'	7.2'	52.3	42.53

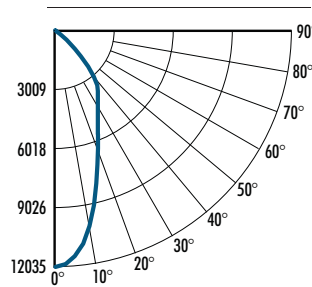
LHABLD6120C200UE-DUN-B45-T40/LRB61W (10000lm, 45°, 4000K)

System Power:	117.0W
Test Date:	6/26/2018
Beam Angle 50%:	43.1°
Field Angle 0%:	96.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	10066.4
CBCP:	12035
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
10000lm : 1.00	4000K : 1.00
8000lm : 0.81	3500K : 0.99
7000lm : 0.69	3000K : 0.98
6000lm : 0.57	2700K : 0.94
5000lm : 0.48	
3500lm : 0.33	CRI
2500lm : 0.24	80 CRI : 1.00
1500lm : 0.17	90 CRI : 0.85
1000lm : 0.12	97 CRI : 0.76

Trim (Lensed): 0.75

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	4.7'	334.31	142.80
8.0'	6.3'	188.05	80.32
10.0'	7.9'	120.4	51.41
12.0'	9.5'	83.6	35.70
14.0'	11.1'	61.4	26.23

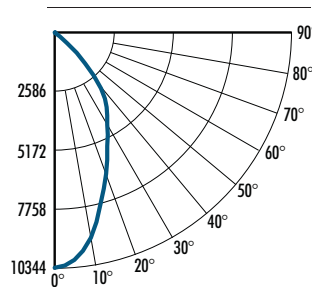
LLHABLD6120C200UE-DUN-B60-T40/LRB61W (10000lm, 60°, 4000K)

System Power:	63.8W
Test Date:	6/26/2018
Beam Angle 50%:	53.1°
Field Angle 0%:	98.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	9958.5
CBCP:	10333
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
10000lm : 1.00	4000K : 1.00
8000lm : 0.83	3500K : 0.99
7000lm : 0.71	3000K : 0.98
6000lm : 0.58	2700K : 0.94
5000lm : 0.49	
3500lm : 0.33	CRI
2500lm : 0.24	80 CRI : 1.00
1500lm : 0.17	90 CRI : 0.85
1000lm : 0.12	97 CRI : 0.76

Trim (Lensed): 0.75

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	6.0'	287.03	102.56
8.0'	8.0'	161.45	57.69
10.0'	10.0'	103.3	36.92
12.0'	12.0'	71.8	25.64
14.0'	14.0'	52.7	18.84

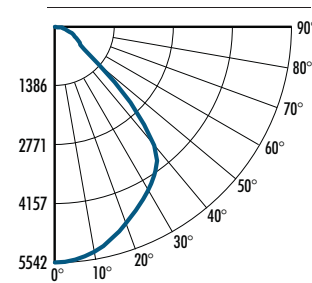
LHABLD6120C200UE-DUN-B90-T40/LRB61W (10000lm, 90°, 4000K)

System Power:	117.0W
Test Date:	6/26/2018
Beam Angle 50%:	88.3°
Field Angle 0%:	126.0°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	10257.7
CBCP:	5542
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
10000lm : 1.00	4000K : 1.00
8000lm : 0.83	3500K : 0.99
7000lm : 0.71	3000K : 0.98
6000lm : 0.58	2700K : 0.94
5000lm : 0.49	
3500lm : 0.33	CRI
2500lm : 0.24	80 CRI : 1.00
1500lm : 0.17	90 CRI : 0.85
1000lm : 0.12	97 CRI : 0.76

Trim (Lensed): 0.75

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	11.6'	153.94	25.81
8.0'	15.5'	86.59	14.52
10.0'	19.4'	55.4	9.29
12.0'	23.3'	38.5	6.45
14.0'	27.2'	28.3	4.74