

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P824308

Luminaire Tested: CB3-D-085U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824308
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3-D-085U-085D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6732.7 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: General Diffuse

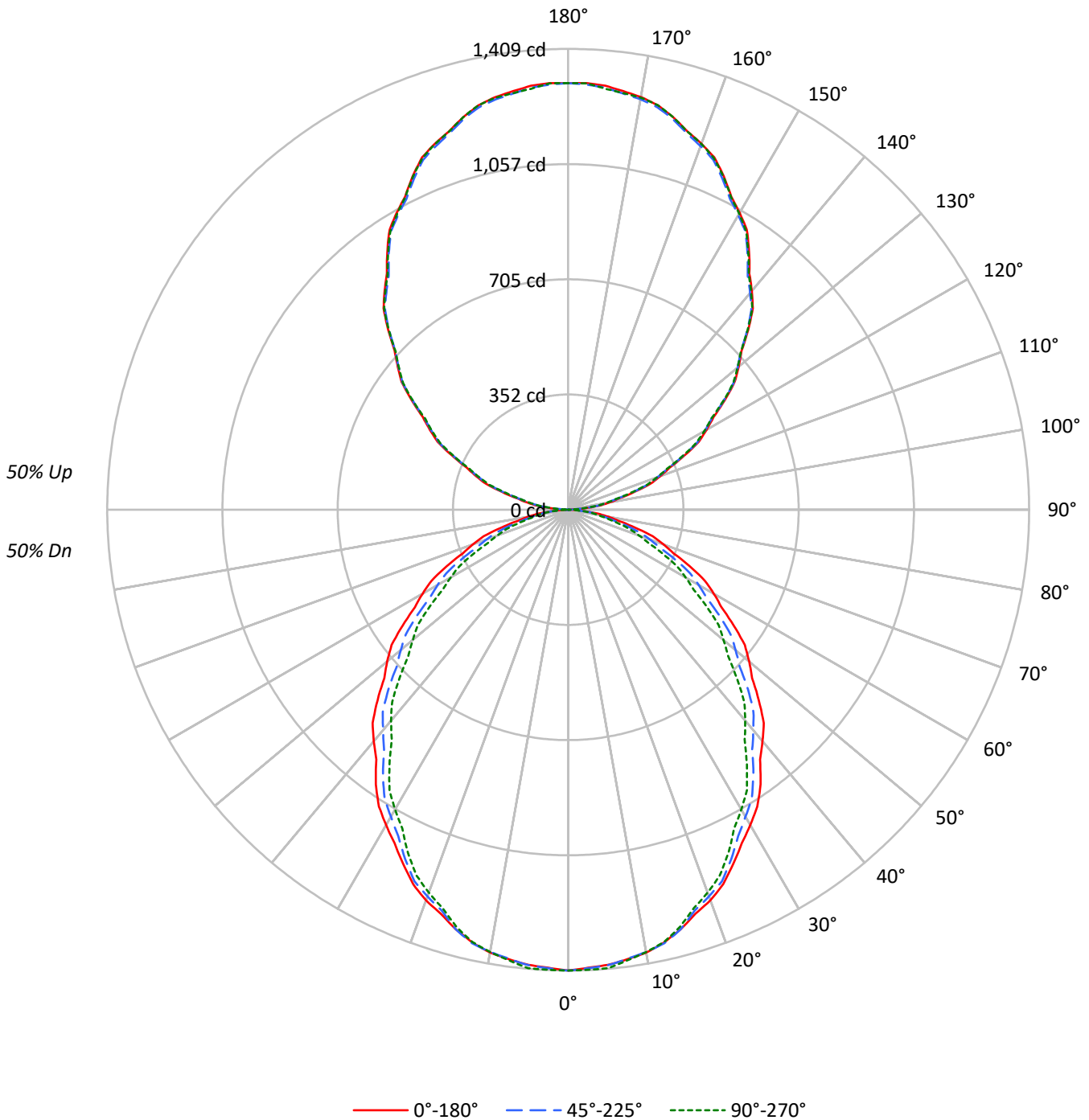
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50																				
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43																				
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36																				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31																				
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26																				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23																				
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23	20																				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18																				
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16																				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15																				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15942	15942	15942
5°	15867	15878	15980
10°	15798	15775	15775
15°	15556	15556	15462
20°	15304	15147	15003
25°	14906	14719	14457
30°	14541	14162	13823
35°	14158	13633	13150
40°	13648	12998	12436
45°	13185	12433	11665
50°	12709	11758	10913
55°	12191	11106	10199
60°	11631	10432	9391
65°	10977	9665	8540
70°	10222	8767	7609
75°	9268	7694	6776
80°	8080	6451	5995
85°	6231	5452	5452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	2.0
10°-20°	373.5	5.5
20°-30°	542.4	8.1
30°-40°	616.5	9.2
40°-50°	598.5	8.9
50°-60°	505.3	7.5
60°-70°	359.5	5.3
70°-80°	192.1	2.9
80°-90°	50.7	0.8
90°-100°	55.1	0.8
100°-110°	215.6	3.2
110°-120°	384.3	5.7
120°-130°	520.0	7.7
130°-140°	597.9	8.9
140°-150°	599.9	8.9
150°-160°	515.9	7.7
160°-170°	349.2	5.2
170°-180°	123.2	1.8
0°-30°	1048.8	15.6
0°-40°	1665.3	24.7
0°-60°	2769.1	41.1
0°-90°	3371.4	50.1
90°-120°	655.0	9.7
90°-150°	2372.9	35.2
90°-180°	3361.0	49.9
0°-180°	6732.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1397	1415	1398	1396	1407	133
15°	1328	1340	1328	1320	1320	374
25°	1194	1198	1179	1163	1158	550
35°	1025	1015	987	958	952	639
45°	824	811	777	740	729	636
55°	618	601	563	527	517	553
65°	410	395	361	329	319	406
75°	212	200	176	158	155	226
85°	48	44	42	42	42	57
90°	0	0	0	0	0	4
95°	53	48	43	40	41	60
105°	209	208	201	198	196	223
115°	392	394	385	384	383	389
125°	584	591	579	577	578	522
135°	778	786	773	767	775	600
145°	964	972	956	951	960	602
155°	1125	1135	1116	1111	1123	517
165°	1242	1253	1236	1229	1242	350
175°	1301	1313	1295	1287	1292	123
180°	1304	1304	1304	1304	1304	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.0	1409.0	1409.0	1409.0	1409.0
2.5°	1401.8	1415.9	1403.4	1405.1	1408.2
5°	1397.0	1414.6	1398.0	1396.2	1407.0
7.5°	1386.2	1402.2	1385.0	1381.0	1389.8
10°	1375.0	1392.6	1373.0	1368.1	1373.0
12.5°	1355.0	1373.4	1357.8	1349.7	1353.8
15°	1328.0	1339.7	1328.0	1320.0	1320.0
17.5°	1295.0	1307.3	1285.2	1279.5	1277.2
20°	1271.0	1281.8	1258.0	1249.9	1246.0
22.5°	1239.0	1249.0	1229.2	1214.7	1210.8
25°	1194.0	1197.9	1179.0	1162.9	1158.0
27.5°	1149.8	1150.8	1124.8	1105.3	1098.8
30°	1113.0	1114.0	1084.0	1062.9	1058.0
32.5°	1076.2	1073.3	1044.8	1019.7	1016.4
35°	1025.0	1015.2	987.0	957.9	952.0
37.5°	963.2	957.3	924.0	894.8	886.0
40°	924.0	914.2	880.0	850.8	842.0
42.5°	884.8	873.5	838.4	806.0	796.4
45°	824.0	811.3	777.0	739.8	729.0
47.5°	762.8	748.9	711.2	675.1	663.2
50°	722.0	707.3	668.0	632.7	620.0
52.5°	680.4	665.0	625.6	589.6	579.2
55°	618.0	601.4	563.0	526.8	517.0
57.5°	555.6	539.2	501.0	466.7	455.0
60°	514.0	498.4	461.0	426.7	415.0
62.5°	471.6	456.7	420.2	386.8	375.8
65°	410.0	395.3	361.0	328.8	319.0
67.5°	349.0	336.5	302.6	273.0	265.2
70°	309.0	297.3	265.0	237.8	230.0
72.5°	270.6	258.1	227.4	204.3	198.8
75°	212.0	200.3	176.0	157.9	155.0
77.5°	158.4	148.8	127.8	117.6	116.0
80°	124.0	115.2	99.0	92.0	92.0
82.5°	92.0	84.8	74.2	71.2	71.2
85°	48.0	44.1	42.0	42.0	42.0
87.5°	14.4	14.4	13.6	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	12.8	8.0	6.4	6.4
95°	53.0	48.1	43.0	40.0	41.0
97.5°	97.8	93.1	86.8	83.8	84.6
100°	129.0	125.1	118.0	115.0	115.0
102.5°	159.4	157.1	150.0	147.0	147.8
105°	209.0	208.0	201.0	198.0	196.0
107.5°	263.8	262.0	254.2	254.0	252.2
110°	299.0	298.0	291.0	290.0	289.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.0	336.4	328.6	327.6	326.6
115°	392.0	394.0	385.0	384.0	383.0
117.5°	450.4	453.1	443.6	442.6	440.8
120°	488.0	493.9	482.0	481.0	480.0
122.5°	526.4	531.5	520.4	518.6	518.4
125°	584.0	590.8	579.0	577.0	578.0
127.5°	641.6	648.6	637.6	633.6	635.8
130°	680.0	687.8	676.0	672.1	675.0
132.5°	719.2	727.0	715.2	711.3	715.8
135°	778.0	785.8	773.0	767.2	775.0
137.5°	835.4	842.2	828.2	824.2	832.4
140°	873.0	879.8	865.0	860.2	870.0
142.5°	909.8	917.4	901.0	896.2	906.8
145°	964.0	971.8	956.0	951.2	960.0
147.5°	1016.0	1024.0	1008.0	1002.4	1011.4
150°	1048.0	1056.8	1040.0	1035.2	1045.0
152.5°	1079.2	1088.8	1071.2	1065.7	1077.8
155°	1125.0	1134.8	1116.0	1111.3	1123.0
157.5°	1166.2	1175.2	1158.2	1153.4	1163.6
160°	1191.0	1200.8	1183.0	1178.3	1190.0
162.5°	1212.6	1222.4	1206.2	1199.9	1211.6
165°	1242.0	1252.8	1236.0	1229.3	1242.0
167.5°	1266.6	1278.1	1260.4	1254.3	1267.0
170°	1281.0	1291.8	1274.0	1266.3	1279.0
172.5°	1290.6	1301.4	1283.6	1275.8	1284.6
175°	1301.0	1312.7	1295.0	1287.1	1292.0
177.5°	1305.6	1315.0	1300.8	1293.8	1304.8
180°	1304.0	1304.0	1304.0	1304.0	1304.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.77	17.62	17.73	18.60	19.87	15.69	16.55	16.65	17.52	18.79
	3H	18.44	19.20	19.41	20.18	21.48	17.11	17.87	18.08	18.85	20.15
	4H	19.07	19.79	20.05	20.78	22.08	17.62	18.35	18.61	19.33	20.63
	6H	19.45	20.12	20.45	21.11	22.42	17.94	18.61	18.94	19.60	20.91
	8H	19.59	20.22	20.59	21.23	22.54	18.06	18.70	19.07	19.70	21.02
	12H	19.66	20.26	20.66	21.26	22.60	18.14	18.74	19.15	19.74	21.08
4H	2H	17.18	17.90	18.17	18.89	20.19	16.32	17.04	17.31	18.03	19.33
	3H	19.07	19.67	20.07	20.69	22.00	17.94	18.54	18.94	19.56	20.87
	4H	19.82	20.37	20.83	21.37	22.71	18.55	19.10	19.55	20.10	21.44
	6H	20.32	20.79	21.34	21.82	23.16	18.96	19.43	19.98	20.46	21.80
	8H	20.51	20.95	21.53	21.98	23.33	19.13	19.57	20.15	20.59	21.94
	12H	20.61	21.01	21.65	22.05	23.40	19.23	19.63	20.27	20.67	22.03
8H	4H	19.95	20.39	20.97	21.41	22.76	18.81	19.25	19.83	20.27	21.62
	6H	20.56	20.93	21.61	22.00	23.34	19.33	19.70	20.38	20.77	22.11
	8H	20.84	21.16	21.89	22.21	23.58	19.59	19.91	20.64	20.96	22.33
	12H	21.00	21.29	22.06	22.33	23.74	19.76	20.05	20.82	21.09	22.50
12H	4H	19.92	20.32	20.96	21.36	22.71	18.81	19.21	19.85	20.25	21.60
	6H	20.58	20.90	21.63	21.95	23.32	19.39	19.71	20.44	20.76	22.13
	8H	20.88	21.16	21.94	22.21	23.62	19.67	19.96	20.73	21.00	22.41