

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



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P385304

Luminaire Tested: **22ID-40-L840-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-40-L840-CNV  
Description: 2X2 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

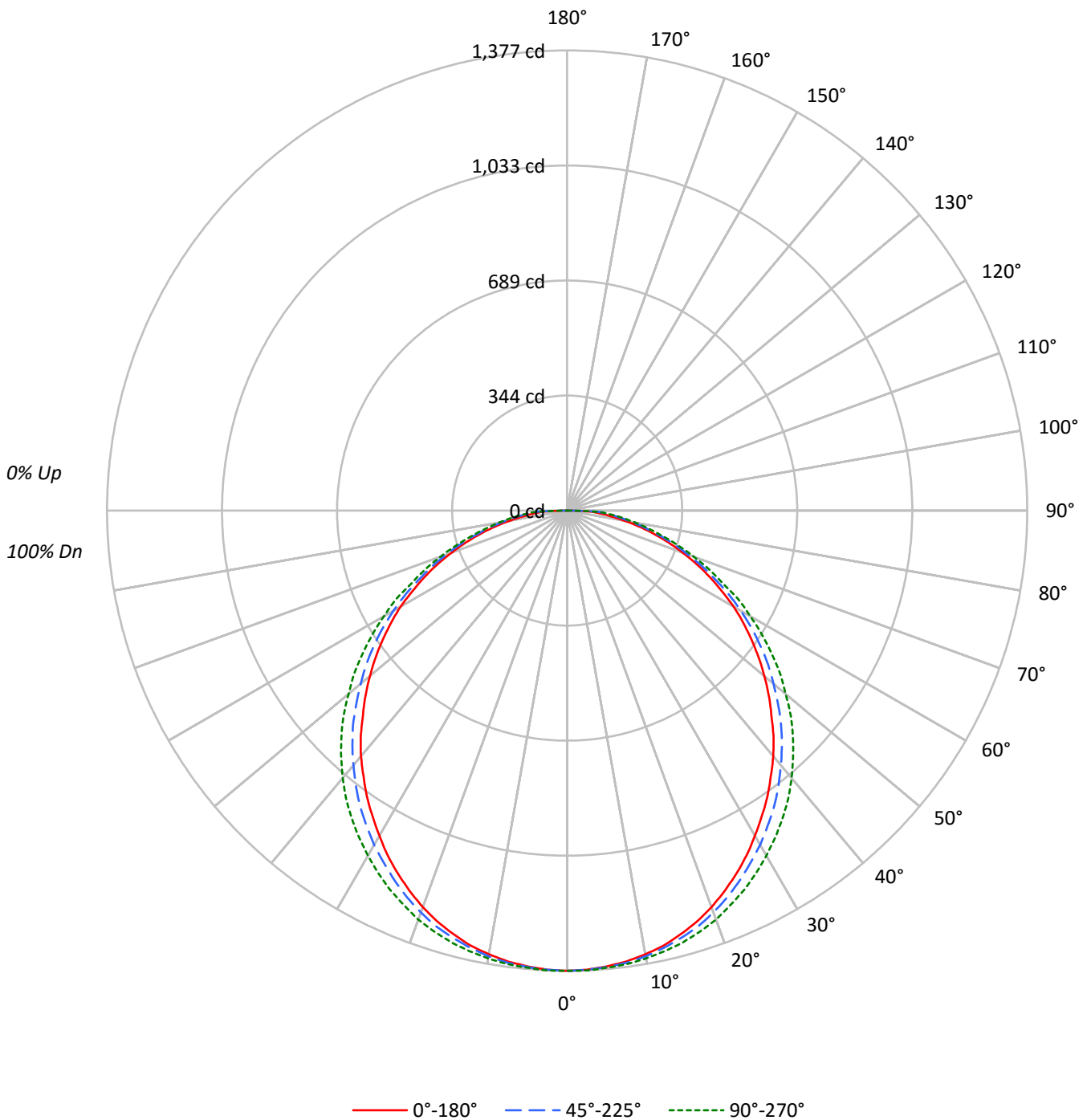
Lumens per Lamp: N/A  
Luminaire Lumens: 3994.4 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 32.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3706	3706	3706
5°	3671	3666	3682
10°	3630	3625	3664
15°	3577	3573	3645
20°	3510	3514	3620
25°	3425	3438	3580
30°	3332	3360	3535
35°	3243	3278	3488
40°	3151	3181	3430
45°	3035	3083	3357
50°	2935	2959	3251
55°	2822	2836	3135
60°	2706	2683	2979
65°	2547	2492	2772
70°	2354	2284	2580
75°	2125	2055	2355
80°	1814	1814	2164
85°	1543	1639	2070



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.3	3.3
10°-20°	373.4	9.3
20°-30°	563.5	14.1
30°-40°	676.4	16.9
40°-50°	700.0	17.5
50°-60°	634.2	15.9
60°-70°	488.6	12.2
70°-80°	302.3	7.6
80°-90°	125.6	3.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1067.3	26.7
0°-40°	1743.7	43.7
0°-60°	3077.9	77.1
0°-90°	3994.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1369	1369	1371	1371	1373	130
15°	1313	1315	1323	1332	1338	370
25°	1198	1203	1221	1242	1253	552
35°	1045	1053	1080	1109	1124	653
45°	864	877	906	939	956	668
55°	673	683	706	737	748	603
65°	472	476	490	511	513	466
75°	268	274	285	297	297	284
85°	98	108	125	133	131	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1377.2	1377.2	1377.2	1377.2	1377.2
2.5°	1375.1	1375.1	1375.1	1375.1	1377.2
5°	1368.9	1368.9	1371.0	1371.0	1373.0
7.5°	1360.6	1360.6	1364.7	1364.7	1368.9
10°	1348.1	1350.2	1354.3	1356.4	1360.6
12.5°	1333.6	1333.6	1339.8	1346.0	1350.2
15°	1312.8	1314.9	1323.2	1331.5	1337.7
17.5°	1289.9	1292.0	1304.5	1312.8	1321.1
20°	1262.9	1265.0	1279.6	1292.0	1302.4
22.5°	1231.8	1235.9	1252.6	1269.2	1277.5
25°	1198.5	1202.7	1221.4	1242.2	1252.6
27.5°	1163.2	1169.5	1188.2	1211.0	1223.5
30°	1123.8	1132.1	1154.9	1179.9	1192.3
32.5°	1084.3	1092.6	1117.5	1146.6	1159.1
35°	1044.8	1053.1	1080.1	1109.2	1123.8
37.5°	1001.2	1009.5	1038.6	1069.8	1086.4
40°	959.7	968.0	995.0	1030.3	1044.8
42.5°	914.0	922.3	951.4	984.6	1001.2
45°	864.1	876.6	905.7	938.9	955.5
47.5°	818.4	828.8	855.8	891.1	907.7
50°	770.6	781.0	806.0	841.3	853.7
52.5°	722.9	733.3	758.2	791.4	803.9
55°	673.0	683.4	706.3	737.4	747.8
57.5°	625.2	633.5	654.3	683.4	691.7
60°	575.4	583.7	600.3	627.3	633.5
62.5°	521.4	527.6	546.3	571.2	579.5
65°	471.5	475.7	490.2	511.0	513.1
67.5°	419.6	423.8	438.3	452.8	459.1
70°	367.7	373.9	384.3	398.8	403.0
72.5°	317.8	324.0	334.4	346.9	349.0
75°	268.0	274.2	284.6	297.0	297.0
77.5°	220.2	226.4	238.9	249.3	249.3
80°	172.4	182.8	195.3	205.6	205.6
82.5°	132.9	141.3	157.9	166.2	166.2
85°	97.6	108.0	124.6	132.9	130.9
87.5°	70.6	81.0	95.6	101.8	99.7
90°	0.0	0.0	0.0	0.0	0.0



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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	15.46	17.12	15.83	17.44	17.75	16.02	17.68	16.38	17.99	18.31
	3H	17.23	18.73	17.60	19.06	19.42	17.78	19.29	18.16	19.61	19.97
	4H	17.90	19.32	18.30	19.67	20.04	18.47	19.89	18.86	20.24	20.61
	6H	18.41	19.73	18.82	20.09	20.48	19.03	20.35	19.44	20.71	21.10
	8H	18.58	19.85	19.01	20.24	20.63	19.25	20.52	19.68	20.90	21.30
	12H	18.72	19.93	19.15	20.31	20.74	19.45	20.66	19.88	21.04	21.47
4H	2H	16.11	17.53	16.50	17.88	18.25	16.55	17.97	16.95	18.32	18.69
	3H	18.09	19.29	18.50	19.68	20.08	18.54	19.74	18.95	20.14	20.54
	4H	18.88	19.97	19.31	20.39	20.82	19.37	20.46	19.80	20.87	21.31
	6H	19.52	20.48	19.97	20.92	21.37	20.08	21.04	20.53	21.48	21.93
	8H	19.75	20.65	20.21	21.09	21.55	20.37	21.27	20.83	21.71	22.17
	12H	19.94	20.75	20.42	21.23	21.69	20.64	21.45	21.12	21.92	22.39
8H	4H	19.22	20.12	19.68	20.56	21.03	19.66	20.55	20.11	20.99	21.46
	6H	19.99	20.75	20.49	21.23	21.71	20.51	21.26	21.00	21.74	22.22
	8H	20.30	20.98	20.81	21.49	21.97	20.89	21.57	21.40	22.07	22.55
	12H	20.59	21.19	21.09	21.68	22.24	21.27	21.87	21.78	22.36	22.92
12H	4H	19.28	20.09	19.75	20.56	21.03	19.69	20.50	20.17	20.97	21.44
	6H	20.08	20.76	20.58	21.26	21.74	20.57	21.24	21.07	21.75	22.23
	8H	20.46	21.06	20.96	21.55	22.10	21.02	21.62	21.52	22.11	22.67