

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: P383836

Luminaire Tested: **24ID-30-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-30-L840-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

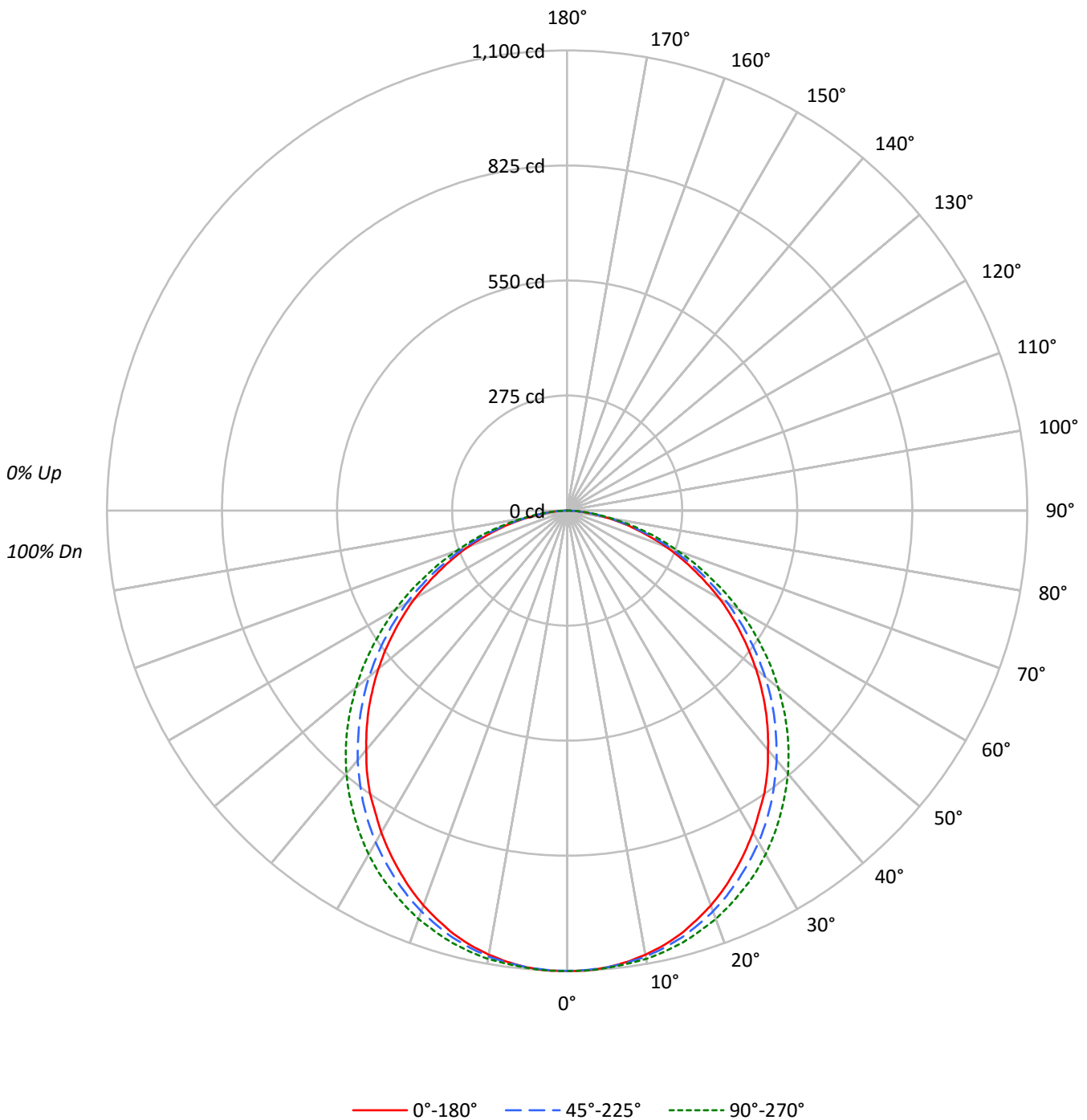
Lumens per Lamp: N/A  
Luminaire Lumens: 2988.9 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.6  
Input Voltage (V): NR  
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: 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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	1481	1481	1481
5°	1480	1480	1482
10°	1473	1479	1487
15°	1460	1472	1489
20°	1438	1460	1488
25°	1411	1442	1482
30°	1380	1423	1474
35°	1351	1398	1459
40°	1312	1368	1442
45°	1276	1333	1416
50°	1234	1293	1378
55°	1185	1245	1333
60°	1133	1193	1278
65°	1058	1120	1197
70°	982	1035	1106
75°	875	922	1000
80°	734	769	838
85°	557	557	627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	3.5
10°-20°	298.0	10.0
20°-30°	448.1	15.0
30°-40°	533.1	17.8
40°-50°	542.4	18.1
50°-60°	477.4	16.0
60°-70°	350.2	11.7
70°-80°	190.1	6.4
80°-90°	45.3	1.5
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°	850.3	28.4
0°-40°	1383.4	46.3
0°-60°	2403.3	80.4
0°-90°	2988.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1096	1094	1096	1096	1098	104
15°	1048	1049	1057	1063	1069	295
25°	950	956	971	988	998	438
35°	822	828	851	876	888	514
45°	670	677	701	731	744	517
55°	505	513	531	556	568	452
65°	332	338	352	367	376	330
75°	168	171	177	186	192	179
85°	36	36	36	39	41	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1100.5	1100.5	1100.5	1100.5	1100.5
2.5°	1100.5	1099.0	1099.0	1099.0	1100.5
5°	1096.0	1094.5	1096.0	1096.0	1097.5
7.5°	1088.5	1087.0	1090.0	1091.5	1093.0
10°	1078.0	1078.0	1082.5	1085.5	1088.5
12.5°	1064.5	1066.0	1070.5	1075.0	1079.5
15°	1047.9	1049.4	1056.9	1063.0	1069.0
17.5°	1026.9	1029.9	1038.9	1047.9	1053.9
20°	1004.3	1008.8	1019.4	1031.4	1038.9
22.5°	978.8	984.8	996.8	1011.8	1019.4
25°	950.2	956.2	971.2	987.8	998.3
27.5°	920.1	927.6	944.2	963.7	975.7
30°	888.5	896.1	915.6	936.7	948.7
32.5°	854.0	863.0	884.0	908.1	920.1
35°	822.4	828.4	851.0	876.5	888.5
37.5°	786.3	793.8	814.9	841.9	855.5
40°	747.2	754.7	778.8	805.9	820.9
42.5°	709.6	715.7	739.7	769.8	783.3
45°	670.5	676.6	700.6	730.7	744.2
47.5°	630.0	637.5	660.0	688.6	702.1
50°	589.4	595.4	617.9	645.0	658.5
52.5°	547.3	553.3	574.3	601.4	614.9
55°	505.2	512.7	530.7	556.3	568.3
57.5°	463.1	470.6	487.1	511.2	521.7
60°	421.0	427.0	443.5	464.6	475.1
62.5°	375.9	380.4	396.9	418.0	427.0
65°	332.3	338.3	351.8	366.8	375.9
67.5°	291.7	294.7	306.7	323.2	329.3
70°	249.6	252.6	263.1	276.6	281.1
72.5°	207.5	212.0	219.5	231.5	237.5
75°	168.4	171.4	177.4	186.4	192.4
77.5°	130.8	132.3	136.8	144.3	148.8
80°	94.7	96.2	99.2	105.2	108.2
82.5°	63.1	64.6	66.2	69.2	72.2
85°	36.1	36.1	36.1	39.1	40.6
87.5°	13.5	12.0	12.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)