

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: P383834

Luminaire Tested: **24ID-30-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383834
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-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

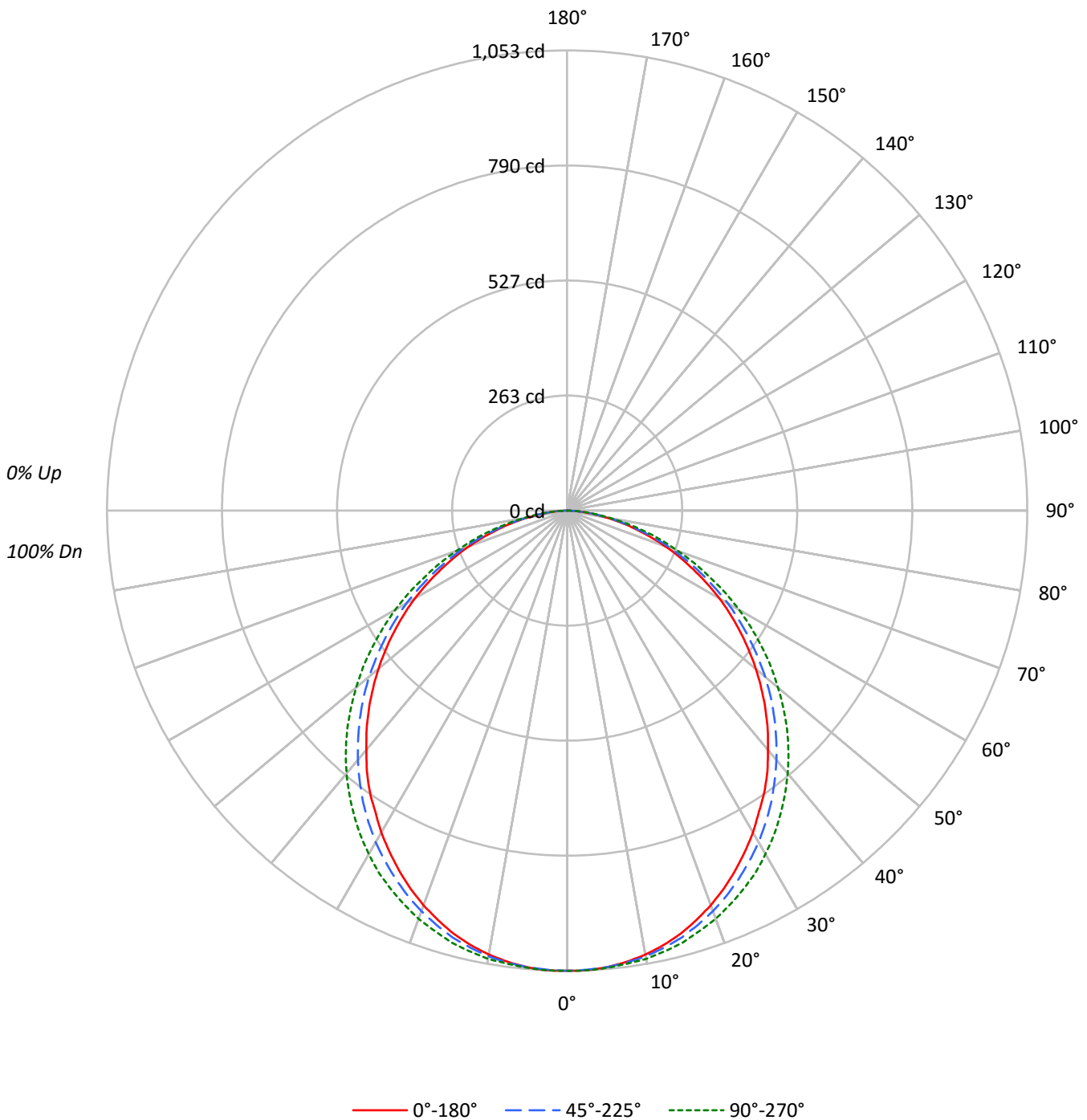
Lumens per Lamp: N/A
Luminaire Lumens: 2860.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	1417	1417	1417
5°	1417	1417	1418
10°	1409	1415	1423
15°	1397	1409	1425
20°	1376	1397	1423
25°	1350	1380	1418
30°	1321	1361	1410
35°	1293	1338	1397
40°	1256	1309	1380
45°	1221	1276	1355
50°	1181	1238	1319
55°	1134	1191	1276
60°	1084	1142	1223
65°	1012	1072	1145
70°	939	991	1058
75°	837	883	958
80°	702	736	803
85°	533	533	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.5
10°-20°	285.2	10.0
20°-30°	428.8	15.0
30°-40°	510.1	17.8
40°-50°	519.1	18.1
50°-60°	456.8	16.0
60°-70°	335.1	11.7
70°-80°	181.9	6.4
80°-90°	43.4	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°	813.7	28.4
0°-40°	1323.8	46.3
0°-60°	2299.7	80.4
0°-90°	2860.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2860.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1049	1047	1049	1049	1050	100
15°	1003	1004	1011	1017	1023	282
25°	909	915	929	945	955	419
35°	787	793	814	839	850	491
45°	642	647	670	699	712	495
55°	483	491	508	532	544	432
65°	318	324	337	351	360	316
75°	161	164	170	178	184	171
85°	34	34	34	37	39	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.1	1053.1	1053.1	1053.1	1053.1
2.5°	1053.1	1051.7	1051.7	1051.7	1053.1
5°	1048.8	1047.4	1048.8	1048.8	1050.2
7.5°	1041.6	1040.2	1043.0	1044.5	1045.9
10°	1031.5	1031.5	1035.8	1038.7	1041.6
12.5°	1018.6	1020.0	1024.3	1028.7	1033.0
15°	1002.8	1004.2	1011.4	1017.1	1022.9
17.5°	982.6	985.5	994.1	1002.8	1008.5
20°	961.0	965.4	975.4	986.9	994.1
22.5°	936.6	942.3	953.8	968.2	975.4
25°	909.2	915.0	929.4	945.2	955.3
27.5°	880.5	887.7	903.5	922.2	933.7
30°	850.3	857.5	876.2	896.3	907.8
32.5°	817.2	825.8	845.9	869.0	880.5
35°	787.0	792.7	814.3	838.7	850.3
37.5°	752.4	759.6	779.8	805.7	818.6
40°	715.0	722.2	745.2	771.1	785.5
42.5°	679.1	684.8	707.8	736.6	749.6
45°	641.7	647.4	670.4	699.2	712.1
47.5°	602.8	610.0	631.6	658.9	671.9
50°	564.0	569.7	591.3	617.2	630.1
52.5°	523.7	529.4	549.6	575.5	588.4
55°	483.4	490.6	507.9	532.3	543.8
57.5°	443.1	450.3	466.1	489.2	499.2
60°	402.8	408.6	424.4	444.6	454.6
62.5°	359.7	364.0	379.8	400.0	408.6
65°	317.9	323.7	336.7	351.0	359.7
67.5°	279.1	282.0	293.5	309.3	315.1
70°	238.8	241.7	251.8	264.7	269.0
72.5°	198.5	202.9	210.0	221.6	227.3
75°	161.1	164.0	169.8	178.4	184.2
77.5°	125.2	126.6	130.9	138.1	142.4
80°	90.6	92.1	95.0	100.7	103.6
82.5°	60.4	61.9	63.3	66.2	69.1
85°	34.5	34.5	34.5	37.4	38.8
87.5°	12.9	11.5	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)