

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: P384170

Luminaire Tested: **24ID-30-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-30-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

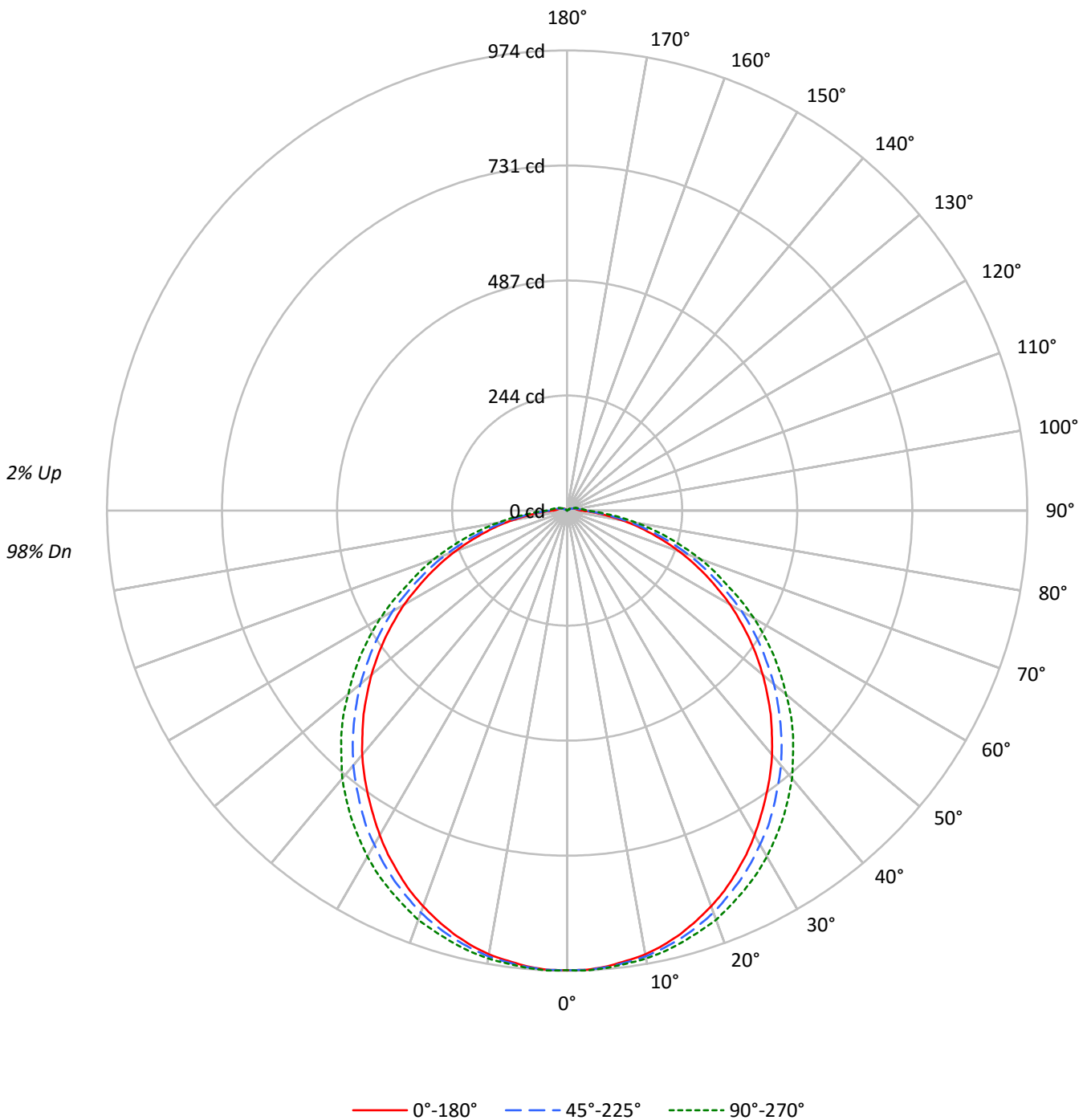
Lumens per Lamp: N/A
Luminaire Lumens: 2881.5 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1309	1309	1309
5°	1306	1305	1307
10°	1298	1299	1306
15°	1285	1289	1302
20°	1266	1276	1300
25°	1244	1258	1291
30°	1218	1237	1283
35°	1190	1215	1271
40°	1165	1192	1257
45°	1136	1163	1236
50°	1104	1136	1206
55°	1072	1102	1181
60°	1036	1066	1148
65°	988	1011	1093
70°	935	958	1057
75°	874	887	999
80°	810	805	934
85°	783	749	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.2
10°-20°	264.1	9.2
20°-30°	398.8	13.8
30°-40°	477.8	16.6
40°-50°	494.0	17.1
50°-60°	447.4	15.5
60°-70°	346.2	12.0
70°-80°	212.6	7.4
80°-90°	84.5	2.9
90°-100°	30.8	1.1
100°-110°	18.9	0.7
110°-120°	9.7	0.3
120°-130°	4.2	0.1
130°-140°	0.3	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°	755.1	26.2
0°-40°	1232.9	42.8
0°-60°	2174.2	75.5
0°-90°	2817.6	97.8
90°-120°	59.5	2.1
90°-150°	63.9	2.2
90°-180°	64.0	2.2
0°-180°	2881.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	968	968	970	970	972	92
15°	928	929	936	942	945	261
25°	846	852	865	879	887	390
35°	735	744	763	783	796	460
45°	609	616	638	665	676	470
55°	470	481	500	522	533	420
65°	324	332	348	365	374	321
75°	181	190	199	212	222	193
85°	63	67	73	80	85	63
90°	29	34	36	41	44	17
95°	22	25	28	31	34	18
105°	16	16	18	19	20	17
115°	10	9	9	10	12	10
125°	6	4	3	4	6	5
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.9	972.9	972.9	972.9	972.9
2.5°	972.9	971.5	972.9	972.9	974.4
5°	968.5	968.5	970.0	970.0	971.5
7.5°	961.2	961.2	964.2	965.6	967.1
10°	953.9	953.9	958.3	959.8	962.7
12.5°	942.2	943.7	948.1	952.5	955.4
15°	927.6	929.1	936.4	942.2	945.2
17.5°	910.1	913.0	921.8	930.6	933.5
20°	891.1	895.5	905.7	916.0	921.8
22.5°	870.7	873.6	885.3	898.4	904.3
25°	845.8	851.7	864.8	879.4	886.7
27.5°	821.0	826.8	841.5	859.0	867.7
30°	793.2	799.1	816.6	835.6	845.8
32.5°	764.0	771.3	791.8	810.8	821.0
35°	734.8	743.6	762.6	783.0	796.2
37.5°	705.6	712.9	733.3	755.3	768.4
40°	674.9	682.2	704.1	726.0	740.7
42.5°	641.3	650.1	672.0	695.4	707.1
45°	609.2	616.5	638.4	664.7	676.4
47.5°	574.1	584.3	604.8	629.6	642.8
50°	540.5	549.3	571.2	594.6	604.8
52.5°	505.5	514.2	534.7	558.0	569.7
55°	470.4	480.6	499.6	521.5	533.2
57.5°	433.9	444.1	463.1	482.1	495.2
60°	398.8	409.0	426.6	445.6	457.2
62.5°	359.4	368.1	387.1	407.6	416.3
65°	324.3	331.6	347.7	365.2	374.0
67.5°	287.8	296.6	311.2	327.2	337.5
70°	251.3	261.5	273.2	287.8	299.5
72.5°	216.2	225.0	235.2	249.8	260.0
75°	181.1	189.9	198.7	211.8	222.0
77.5°	150.5	154.9	163.6	175.3	185.5
80°	116.9	122.7	130.0	141.7	149.0
82.5°	87.7	93.5	99.3	108.1	115.4
85°	62.8	67.2	73.0	80.3	84.7
87.5°	42.4	46.7	51.1	57.0	61.4
90°	29.2	33.6	36.5	40.9	43.8
92.5°	24.8	27.8	30.7	33.6	36.5
95°	21.9	24.8	27.8	30.7	33.6
97.5°	20.5	21.9	24.8	27.8	29.2
100°	19.0	20.5	21.9	24.8	26.3
102.5°	17.5	17.5	20.5	21.9	23.4
105°	16.1	16.1	17.5	19.0	20.5
107.5°	14.6	14.6	16.1	16.1	19.0
110°	13.1	11.7	13.1	13.1	16.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.7	10.2	11.7	11.7	13.1
115°	10.2	8.8	8.8	10.2	11.7
117.5°	8.8	7.3	7.3	7.3	10.2
120°	8.8	7.3	5.8	5.8	8.8
122.5°	7.3	5.8	4.4	5.8	7.3
125°	5.8	4.4	2.9	4.4	5.8
127.5°	4.4	4.4	1.5	2.9	4.4
130°	4.4	2.9	1.5	2.9	2.9
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)