

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: P384172

Luminaire Tested: **24ID-30-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384172
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-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

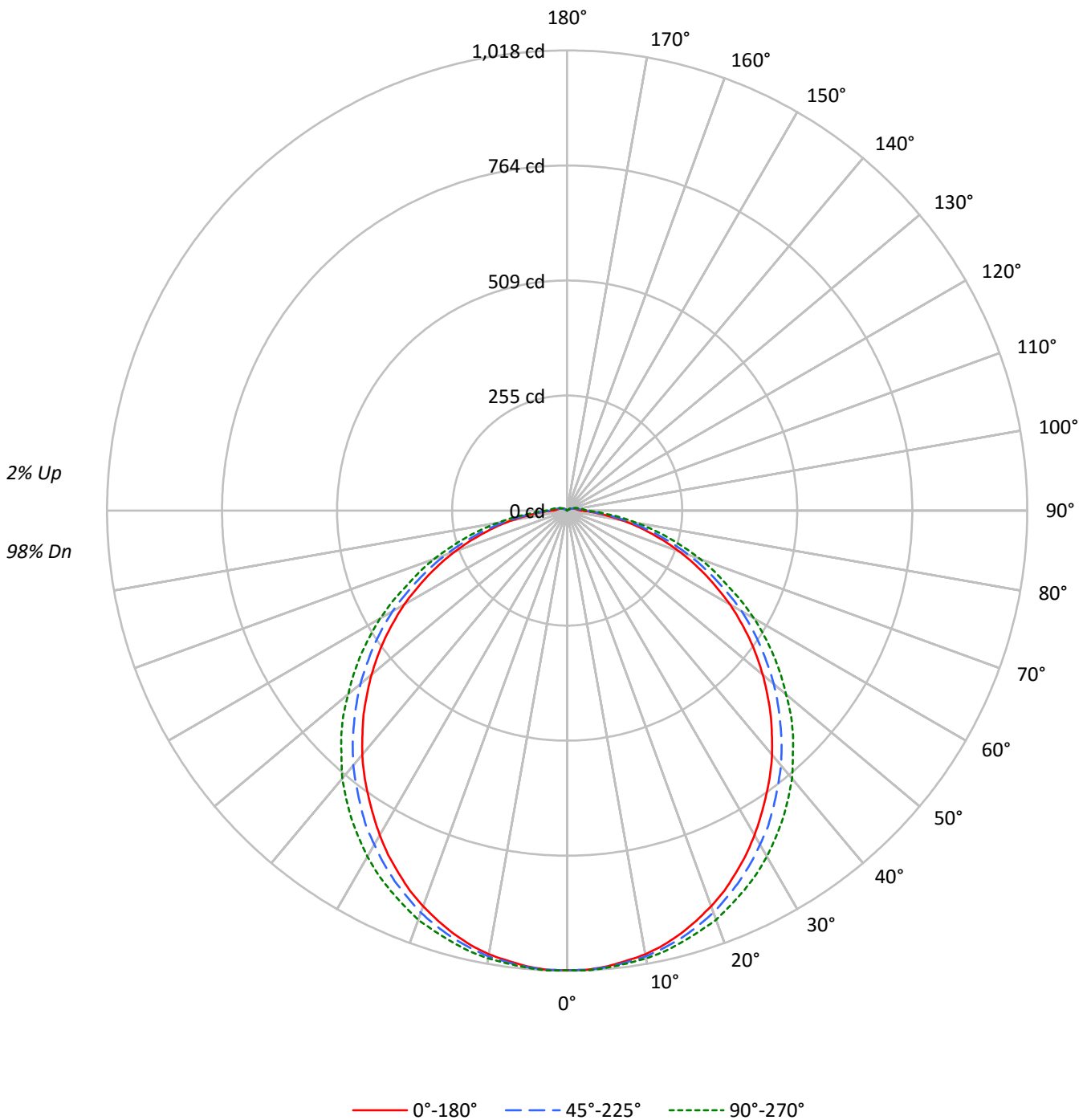
Lumens per Lamp: N/A
Luminaire Lumens: 3011.3 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 25.6
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	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°	1368	1368	1368
5°	1365	1364	1366
10°	1357	1358	1365
15°	1343	1347	1361
20°	1323	1334	1359
25°	1300	1315	1350
30°	1273	1293	1341
35°	1243	1270	1328
40°	1218	1246	1314
45°	1187	1216	1291
50°	1154	1187	1260
55°	1120	1152	1234
60°	1083	1114	1199
65°	1033	1057	1142
70°	977	1002	1105
75°	913	926	1044
80°	846	842	976
85°	818	783	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.2
10°-20°	276.0	9.2
20°-30°	416.7	13.8
30°-40°	499.3	16.6
40°-50°	516.2	17.1
50°-60°	467.5	15.5
60°-70°	361.8	12.0
70°-80°	222.2	7.4
80°-90°	88.3	2.9
90°-100°	32.2	1.1
100°-110°	19.8	0.7
110°-120°	10.2	0.3
120°-130°	4.4	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°	789.1	26.2
0°-40°	1288.4	42.8
0°-60°	2272.2	75.5
0°-90°	2944.5	97.8
90°-120°	62.2	2.1
90°-150°	66.8	2.2
90°-180°	67.0	2.2
0°-180°	3011.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1012	1012	1014	1014	1015	96
15°	969	971	979	985	988	273
25°	884	890	904	919	927	407
35°	768	777	797	818	832	481
45°	637	644	667	695	707	491
55°	492	502	522	545	557	439
65°	339	347	363	382	391	335
75°	189	198	208	221	232	202
85°	66	70	76	84	88	65
90°	30	35	38	43	46	18
95°	23	26	29	32	35	18
105°	17	17	18	20	21	18
115°	11	9	9	11	12	11
125°	6	5	3	5	6	6
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°	1016.8	1016.8	1016.8	1016.8	1016.8
2.5°	1016.8	1015.2	1016.8	1016.8	1018.3
5°	1012.2	1012.2	1013.7	1013.7	1015.2
7.5°	1004.5	1004.5	1007.6	1009.1	1010.6
10°	996.9	996.9	1001.5	1003.0	1006.1
12.5°	984.7	986.2	990.8	995.4	998.4
15°	969.4	971.0	978.6	984.7	987.7
17.5°	951.1	954.2	963.3	972.5	975.5
20°	931.3	935.8	946.5	957.2	963.3
22.5°	909.9	912.9	925.2	938.9	945.0
25°	883.9	890.0	903.8	919.0	926.7
27.5°	858.0	864.1	879.4	897.7	906.8
30°	829.0	835.1	853.4	873.2	883.9
32.5°	798.4	806.1	827.4	847.3	858.0
35°	767.9	777.1	796.9	818.3	832.0
37.5°	737.4	745.0	766.4	789.3	803.0
40°	705.3	712.9	735.8	758.7	774.0
42.5°	670.2	679.4	702.3	726.7	738.9
45°	636.6	644.2	667.1	694.6	706.8
47.5°	600.0	610.7	632.0	658.0	671.7
50°	564.9	574.0	596.9	621.3	632.0
52.5°	528.2	537.4	558.8	583.2	595.4
55°	491.6	502.3	522.1	545.0	557.2
57.5°	453.4	464.1	484.0	503.8	517.5
60°	416.8	427.5	445.8	465.6	477.8
62.5°	375.6	384.7	404.6	425.9	435.1
65°	338.9	346.6	363.3	381.7	390.8
67.5°	300.8	309.9	325.2	342.0	352.7
70°	262.6	273.3	285.5	300.8	313.0
72.5°	225.9	235.1	245.8	261.1	271.7
75°	189.3	198.5	207.6	221.4	232.1
77.5°	157.2	161.8	171.0	183.2	193.9
80°	122.1	128.2	135.9	148.1	155.7
82.5°	91.6	97.7	103.8	113.0	120.6
85°	65.6	70.2	76.3	84.0	88.5
87.5°	44.3	48.9	53.4	59.5	64.1
90°	30.5	35.1	38.2	42.7	45.8
92.5°	26.0	29.0	32.1	35.1	38.2
95°	22.9	26.0	29.0	32.1	35.1
97.5°	21.4	22.9	26.0	29.0	30.5
100°	19.8	21.4	22.9	26.0	27.5
102.5°	18.3	18.3	21.4	22.9	24.4
105°	16.8	16.8	18.3	19.8	21.4
107.5°	15.3	15.3	16.8	16.8	19.8
110°	13.7	12.2	13.7	13.7	16.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.2	10.7	12.2	12.2	13.7
115°	10.7	9.2	9.2	10.7	12.2
117.5°	9.2	7.6	7.6	7.6	10.7
120°	9.2	7.6	6.1	6.1	9.2
122.5°	7.6	6.1	4.6	6.1	7.6
125°	6.1	4.6	3.1	4.6	6.1
127.5°	4.6	4.6	1.5	3.1	4.6
130°	4.6	3.1	1.5	3.1	3.1
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)