

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: P384340

Luminaire Tested: **24ID-30-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-30-L840-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

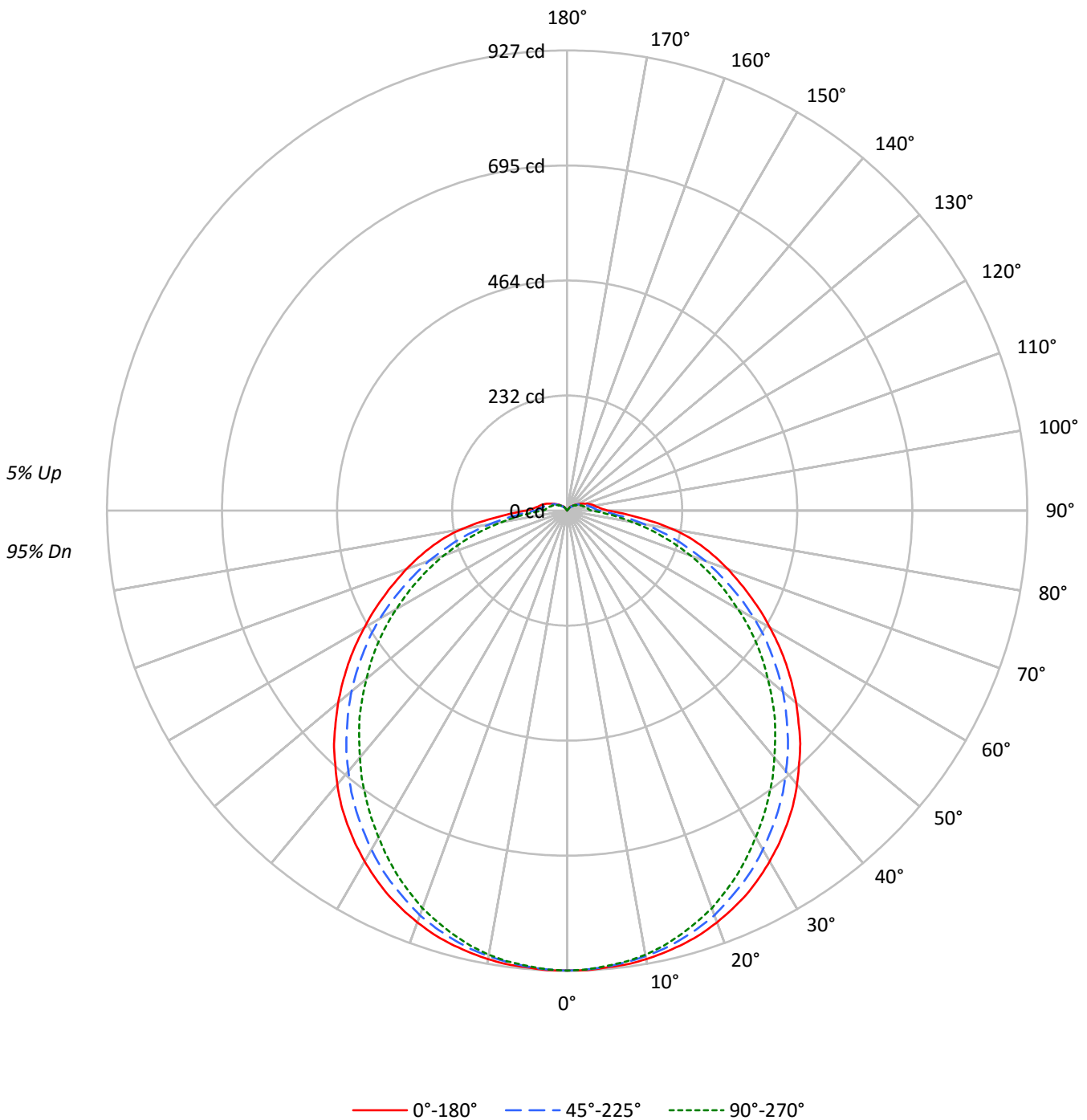
Lumens per Lamp: N/A
Luminaire Lumens: 3005.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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



TEST NUMBER: P384340
CATALOG NUMBER: 24ID-30-L840-CFD2

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1247	1247	1247
5°	1243	1236	1234
10°	1245	1226	1223
15°	1245	1216	1205
20°	1245	1204	1185
25°	1244	1185	1157
30°	1238	1166	1126
35°	1232	1145	1097
40°	1223	1121	1066
45°	1213	1098	1039
50°	1201	1074	1005
55°	1192	1046	976
60°	1184	1016	935
65°	1188	974	893
70°	1215	936	845
75°	1276	883	782
80°	1359	814	702
85°	1427	769	648



TEST NUMBER: P384340

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	2.9
10°-20°	252.2	8.4
20°-30°	383.1	12.7
30°-40°	462.7	15.4
40°-50°	484.3	16.1
50°-60°	449.4	15.0
60°-70°	364.0	12.1
70°-80°	245.6	8.2
80°-90°	118.7	3.9
90°-100°	59.7	2.0
100°-110°	43.4	1.4
110°-120°	29.0	1.0
120°-130°	16.8	0.6
130°-140°	8.5	0.3
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	723.0	24.1
0°-40°	1185.7	39.4
0°-60°	2119.4	70.5
0°-90°	2847.7	94.7
90°-120°	132.1	4.4
90°-150°	158.1	5.3
90°-180°	158.0	5.3
0°-180°	3005.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	924	922	922	921	921	88
15°	904	899	893	887	884	255
25°	854	846	831	816	810	393
35°	772	761	740	717	707	483
45°	664	652	628	602	592	512
55°	538	526	502	478	466	481
65°	406	391	364	344	331	403
75°	284	255	226	209	197	299
85°	136	118	100	91	82	129
90°	82	74	64	58	48	47
95°	65	61	55	48	42	51
105°	48	46	41	36	33	52
115°	33	30	30	26	26	33
125°	21	18	20	17	18	19
135°	12	11	11	11	12	9
145°	0	0	0	0	0	1
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



TEST NUMBER: P384340

CATALOG NUMBER: 24ID-30-L840-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.7	926.7	926.7	926.7	926.7
2.5°	926.7	925.2	925.2	925.2	925.2
5°	923.7	922.2	922.2	920.6	920.6
7.5°	922.2	919.1	917.6	916.1	916.1
10°	917.6	914.6	911.5	908.5	908.5
12.5°	911.5	908.5	904.0	897.9	897.9
15°	904.0	899.4	893.3	887.3	884.2
17.5°	894.9	890.3	881.2	872.1	869.1
20°	882.7	876.7	867.6	855.4	852.4
22.5°	869.1	863.0	849.4	837.2	831.2
25°	853.9	846.3	831.2	816.0	809.9
27.5°	835.7	828.1	811.4	793.2	785.7
30°	816.0	806.9	788.7	769.0	759.9
32.5°	794.8	784.1	764.4	743.2	734.1
35°	772.0	761.4	740.2	717.4	706.8
37.5°	747.7	737.1	714.4	690.1	679.5
40°	720.4	709.8	685.6	661.3	649.2
42.5°	691.6	682.5	658.3	632.5	620.3
45°	664.3	652.2	627.9	602.1	591.5
47.5°	632.5	623.4	597.6	571.8	559.7
50°	602.1	591.5	567.3	541.5	527.8
52.5°	570.3	561.2	535.4	509.6	497.5
55°	538.4	526.3	502.0	477.8	465.6
57.5°	505.1	494.4	470.2	447.4	432.3
60°	471.7	461.1	435.3	414.1	397.4
62.5°	439.8	427.7	400.4	377.7	364.0
65°	406.5	391.3	364.0	344.3	330.6
67.5°	374.6	356.4	329.1	310.9	297.3
70°	344.3	323.1	295.8	277.6	263.9
72.5°	314.0	288.2	259.4	242.7	230.5
75°	283.6	254.8	226.0	209.3	197.2
77.5°	253.3	219.9	191.1	177.5	165.3
80°	216.9	185.0	157.7	145.6	133.5
82.5°	175.9	150.2	127.4	115.3	106.2
85°	136.5	118.3	100.1	91.0	81.9
87.5°	106.2	92.5	78.9	71.3	63.7
90°	81.9	74.3	63.7	57.6	48.5
92.5°	71.3	65.2	57.6	51.6	44.0
95°	65.2	60.7	54.6	48.5	42.5
97.5°	59.2	56.1	50.1	45.5	39.4
100°	56.1	51.6	47.0	42.5	37.9
102.5°	53.1	48.5	44.0	39.4	36.4
105°	48.5	45.5	41.0	36.4	33.4
107.5°	45.5	41.0	37.9	33.4	31.9
110°	41.0	37.9	34.9	31.9	30.3



TEST NUMBER: P384340

CATALOG NUMBER: 24ID-30-L840-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.4	34.9	31.9	28.8	27.3
115°	33.4	30.3	30.3	25.8	25.8
117.5°	30.3	27.3	27.3	24.3	24.3
120°	25.8	24.3	24.3	21.2	21.2
122.5°	22.8	21.2	21.2	19.7	19.7
125°	21.2	18.2	19.7	16.7	18.2
127.5°	18.2	16.7	16.7	15.2	16.7
130°	15.2	13.7	13.7	13.7	15.2
132.5°	13.7	12.1	12.1	12.1	13.7
135°	12.1	10.6	10.6	10.6	12.1
137.5°	10.6	9.1	7.6	9.1	10.6
140°	9.1	7.6	6.1	7.6	9.1
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)