

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: P384688

Luminaire Tested: **24ID-45-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

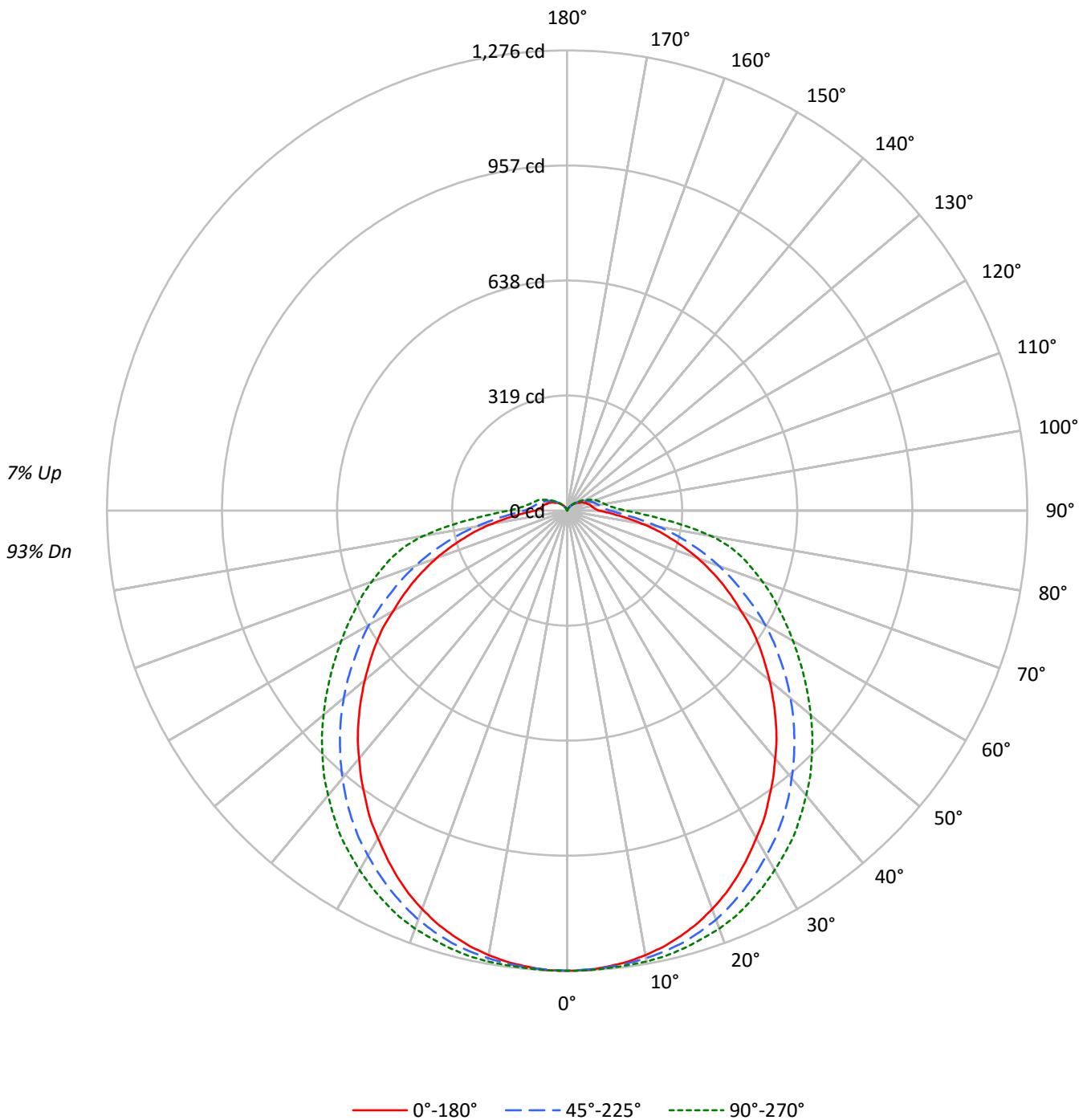
Lumens per Lamp: N/A
Luminaire Lumens: 4465.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 40
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	117	117	117	117	114	114	114	114	107	107	107		101	101	101		95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84		86	83	80		81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68		74	70	66		70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57		65	59	55		62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48		58	51	46		55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41		52	45	40		49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36		47	40	35		44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31		42	36	31		40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28		39	32	27		37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25		36	29	25		34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23		33	27	22		32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1717	1717	1717
5°	1705	1698	1702
10°	1691	1683	1697
15°	1672	1669	1693
20°	1646	1649	1690
25°	1613	1622	1681
30°	1573	1594	1668
35°	1535	1566	1658
40°	1498	1531	1639
45°	1464	1497	1623
50°	1427	1461	1607
55°	1396	1423	1596
60°	1352	1389	1601
65°	1325	1336	1627
70°	1294	1291	1689
75°	1249	1224	1784
80°	1210	1142	1838
85°	1223	1053	1656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	2.7
10°-20°	349.6	7.8
20°-30°	534.2	12.0
30°-40°	650.3	14.6
40°-50°	687.3	15.4
50°-60°	648.8	14.5
60°-70°	545.8	12.2
70°-80°	393.5	8.8
80°-90°	207.5	4.6
90°-100°	111.1	2.5
100°-110°	84.4	1.9
110°-120°	61.2	1.4
120°-130°	38.4	0.9
130°-140°	20.8	0.5
140°-150°	9.1	0.2
150°-160°	2.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1004.8	22.5
0°-40°	1655.1	37.1
0°-60°	2991.1	67.0
0°-90°	4137.9	92.7
90°-120°	256.6	5.7
90°-150°	324.9	7.3
90°-180°	327.0	7.3
0°-180°	4465.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1269	1269	1272	1272	1274	121
15°	1220	1225	1240	1249	1256	344
25°	1118	1131	1160	1187	1198	515
35°	975	998	1042	1082	1098	611
45°	817	842	891	940	960	631
55°	648	677	722	775	802	579
65°	472	499	539	606	648	467
75°	296	321	352	421	503	314
85°	136	154	172	214	260	127
90°	87	102	118	140	160	50
95°	76	87	100	114	122	60
105°	65	71	80	89	94	67
115°	51	56	62	67	71	51
125°	38	38	44	44	47	34
135°	27	24	27	27	29	20
145°	16	13	13	13	16	10
155°	7	7	2	4	7	3
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°	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1276.0	1273.8	1273.8	1273.8	1276.0
5°	1269.3	1269.3	1271.6	1271.6	1273.8
7.5°	1262.7	1262.7	1267.1	1269.3	1271.6
10°	1251.5	1253.8	1260.4	1264.9	1269.3
12.5°	1238.2	1240.4	1251.5	1260.4	1264.9
15°	1220.4	1224.8	1240.4	1249.3	1256.0
17.5°	1200.3	1207.0	1224.8	1238.2	1244.8
20°	1175.8	1184.7	1207.0	1224.8	1233.7
22.5°	1149.1	1158.0	1184.7	1207.0	1218.1
25°	1117.9	1131.3	1160.2	1186.9	1198.1
27.5°	1084.5	1100.1	1133.5	1164.7	1175.8
30°	1048.9	1066.7	1104.6	1138.0	1151.3
32.5°	1015.5	1033.3	1075.6	1111.2	1124.6
35°	975.4	997.7	1042.2	1082.3	1097.9
37.5°	937.5	959.8	1006.6	1048.9	1064.5
40°	897.4	919.7	968.7	1015.5	1031.1
42.5°	859.6	881.9	930.9	979.8	997.7
45°	817.3	841.8	890.8	939.8	959.8
47.5°	775.0	799.5	850.7	901.9	921.9
50°	732.7	759.4	808.4	859.6	881.9
52.5°	690.3	717.1	766.1	819.5	841.8
55°	648.0	677.0	721.5	775.0	801.7
57.5°	605.7	634.7	679.2	734.9	761.6
60°	556.7	590.1	634.7	692.6	723.7
62.5°	514.4	543.4	587.9	648.0	685.9
65°	472.1	498.8	538.9	605.7	648.0
67.5°	427.6	456.5	494.4	556.7	614.6
70°	385.3	409.8	447.6	512.2	576.8
72.5°	340.7	365.2	400.8	467.7	538.9
75°	296.2	320.7	351.9	420.9	503.3
77.5°	256.1	276.1	305.1	371.9	461.0
80°	211.6	231.6	258.3	318.4	405.3
82.5°	171.5	189.3	211.6	265.0	334.0
85°	135.8	153.7	171.5	213.8	260.5
87.5°	109.1	122.5	140.3	171.5	202.6
90°	86.8	102.4	118.0	140.3	160.3
92.5°	80.2	93.5	106.9	124.7	138.1
95°	75.7	86.8	100.2	113.6	122.5
97.5°	71.3	82.4	93.5	106.9	113.6
100°	69.0	77.9	89.1	100.2	104.7
102.5°	66.8	73.5	84.6	93.5	100.2
105°	64.6	71.3	80.2	89.1	93.5
107.5°	60.1	66.8	75.7	84.6	89.1
110°	57.9	62.4	71.3	77.9	84.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.7	60.1	66.8	73.5	77.9
115°	51.2	55.7	62.4	66.8	71.3
117.5°	49.0	51.2	57.9	60.1	64.6
120°	44.5	46.8	53.4	55.7	57.9
122.5°	40.1	42.3	49.0	49.0	53.4
125°	37.9	37.9	44.5	44.5	46.8
127.5°	35.6	35.6	40.1	40.1	42.3
130°	31.2	31.2	35.6	35.6	35.6
132.5°	28.9	26.7	31.2	31.2	33.4
135°	26.7	24.5	26.7	26.7	28.9
137.5°	22.3	22.3	24.5	22.3	24.5
140°	20.0	17.8	20.0	20.0	22.3
142.5°	17.8	15.6	17.8	15.6	17.8
145°	15.6	13.4	13.4	13.4	15.6
147.5°	13.4	11.1	11.1	11.1	13.4
150°	11.1	8.9	8.9	8.9	11.1
152.5°	8.9	6.7	4.5	6.7	8.9
155°	6.7	6.7	2.2	4.5	6.7
157.5°	4.5	4.5	0.0	2.2	4.5
160°	2.2	2.2	0.0	2.2	2.2
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)