

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: P384684

Luminaire Tested: **24ID-40-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384684
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-40-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

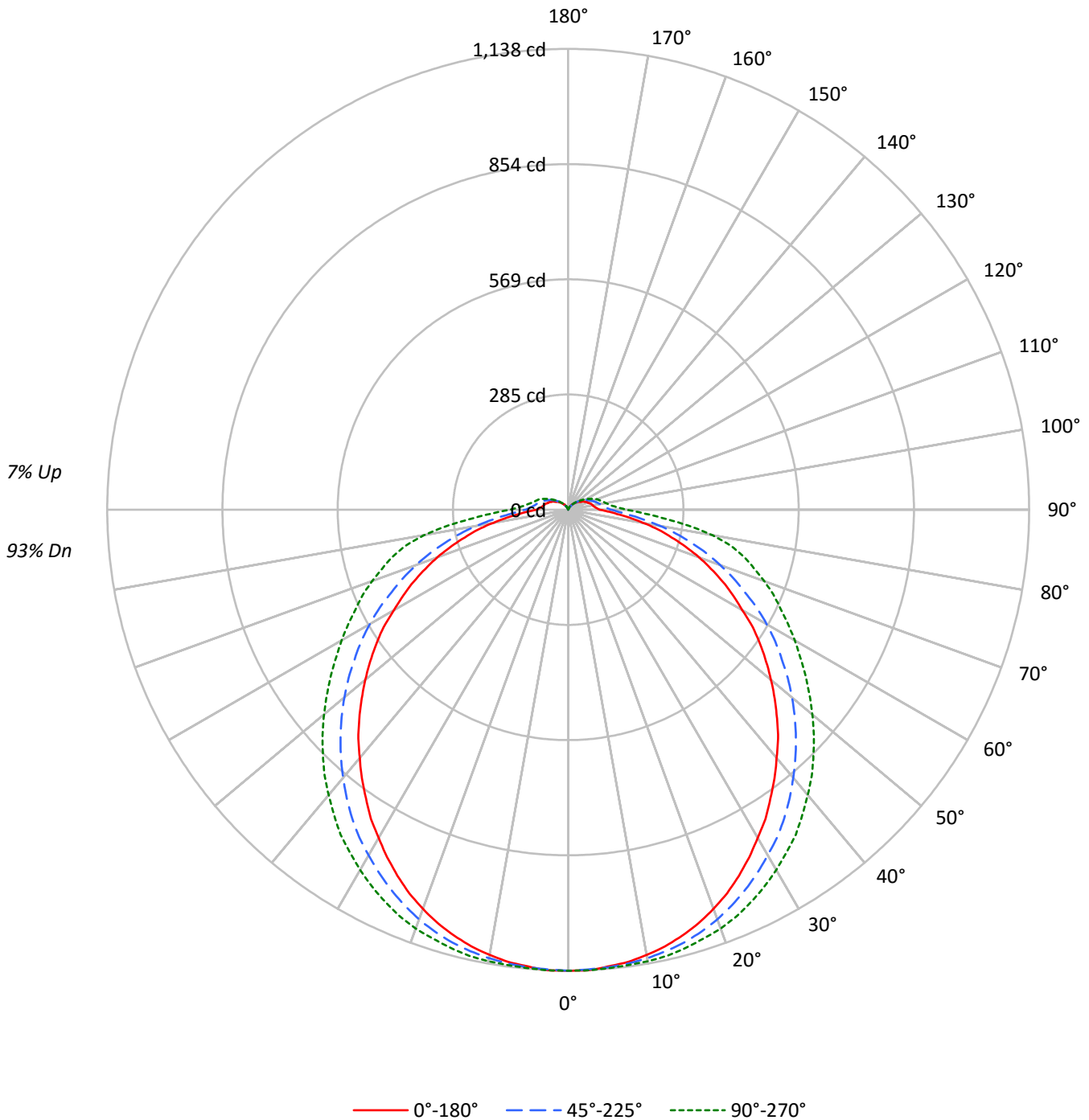
Lumens per Lamp: N/A
Luminaire Lumens: 3983.6 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 35.2
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°	1532	1532	1532
5°	1521	1515	1518
10°	1509	1501	1514
15°	1492	1489	1510
20°	1469	1471	1507
25°	1439	1447	1499
30°	1403	1422	1488
35°	1369	1397	1479
40°	1336	1366	1462
45°	1306	1335	1448
50°	1273	1304	1433
55°	1245	1270	1424
60°	1206	1239	1428
65°	1182	1192	1451
70°	1154	1151	1507
75°	1114	1092	1592
80°	1079	1019	1640
85°	1091	939	1477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	2.7
10°-20°	311.9	7.8
20°-30°	476.6	12.0
30°-40°	580.1	14.6
40°-50°	613.1	15.4
50°-60°	578.8	14.5
60°-70°	486.9	12.2
70°-80°	351.1	8.8
80°-90°	185.1	4.6
90°-100°	99.1	2.5
100°-110°	75.3	1.9
110°-120°	54.6	1.4
120°-130°	34.3	0.9
130°-140°	18.5	0.5
140°-150°	8.1	0.2
150°-160°	2.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	896.4	22.5
0°-40°	1476.5	37.1
0°-60°	2668.4	67.0
0°-90°	3691.5	92.7
90°-120°	229.0	5.7
90°-150°	289.8	7.3
90°-180°	292.0	7.3
0°-180°	3983.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1132	1132	1134	1134	1136	108
15°	1089	1093	1107	1114	1120	307
25°	997	1009	1035	1059	1069	459
35°	870	890	930	966	979	545
45°	729	751	795	838	856	563
55°	578	604	644	691	715	517
65°	421	445	481	540	578	416
75°	264	286	314	376	449	281
85°	121	137	153	191	232	114
90°	78	91	105	125	143	44
95°	68	78	89	101	109	54
105°	58	64	72	80	83	60
115°	46	50	56	60	64	46
125°	34	34	40	40	42	30
135°	24	22	24	24	26	18
145°	14	12	12	12	14	9
155°	6	6	2	4	6	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°	1138.4	1138.4	1138.4	1138.4	1138.4
2.5°	1138.4	1136.4	1136.4	1136.4	1138.4
5°	1132.4	1132.4	1134.4	1134.4	1136.4
7.5°	1126.5	1126.5	1130.4	1132.4	1134.4
10°	1116.5	1118.5	1124.5	1128.4	1132.4
12.5°	1104.6	1106.6	1116.5	1124.5	1128.4
15°	1088.7	1092.7	1106.6	1114.5	1120.5
17.5°	1070.8	1076.8	1092.7	1104.6	1110.6
20°	1049.0	1056.9	1076.8	1092.7	1100.6
22.5°	1025.1	1033.1	1056.9	1076.8	1086.7
25°	997.3	1009.2	1035.1	1058.9	1068.8
27.5°	967.5	981.4	1011.2	1039.0	1049.0
30°	935.7	951.6	985.4	1015.2	1027.1
32.5°	905.9	921.8	959.6	991.4	1003.3
35°	870.2	890.0	929.8	965.5	979.4
37.5°	836.4	856.3	898.0	935.7	949.6
40°	800.6	820.5	864.2	905.9	919.8
42.5°	766.9	786.7	830.4	874.1	890.0
45°	729.1	751.0	794.7	838.4	856.3
47.5°	691.4	713.2	758.9	804.6	822.5
50°	653.6	677.5	721.2	766.9	786.7
52.5°	615.9	639.7	683.4	731.1	751.0
55°	578.1	604.0	643.7	691.4	715.2
57.5°	540.4	566.2	605.9	655.6	679.4
60°	496.7	526.5	566.2	617.9	645.7
62.5°	458.9	484.8	524.5	578.1	611.9
65°	421.2	445.0	480.8	540.4	578.1
67.5°	381.4	407.3	441.0	496.7	548.3
70°	343.7	365.6	399.3	456.9	514.6
72.5°	304.0	325.8	357.6	417.2	480.8
75°	264.2	286.1	313.9	375.5	449.0
77.5°	228.5	246.3	272.2	331.8	411.2
80°	188.7	206.6	230.5	284.1	361.6
82.5°	153.0	168.9	188.7	236.4	298.0
85°	121.2	137.1	153.0	190.7	232.4
87.5°	97.3	109.3	125.2	153.0	180.8
90°	77.5	91.4	105.3	125.2	143.0
92.5°	71.5	83.4	95.4	111.3	123.2
95°	67.5	77.5	89.4	101.3	109.3
97.5°	63.6	73.5	83.4	95.4	101.3
100°	61.6	69.5	79.5	89.4	93.4
102.5°	59.6	65.6	75.5	83.4	89.4
105°	57.6	63.6	71.5	79.5	83.4
107.5°	53.6	59.6	67.5	75.5	79.5
110°	51.7	55.6	63.6	69.5	75.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.7	53.6	59.6	65.6	69.5
115°	45.7	49.7	55.6	59.6	63.6
117.5°	43.7	45.7	51.7	53.6	57.6
120°	39.7	41.7	47.7	49.7	51.7
122.5°	35.8	37.7	43.7	43.7	47.7
125°	33.8	33.8	39.7	39.7	41.7
127.5°	31.8	31.8	35.8	35.8	37.7
130°	27.8	27.8	31.8	31.8	31.8
132.5°	25.8	23.8	27.8	27.8	29.8
135°	23.8	21.9	23.8	23.8	25.8
137.5°	19.9	19.9	21.9	19.9	21.9
140°	17.9	15.9	17.9	17.9	19.9
142.5°	15.9	13.9	15.9	13.9	15.9
145°	13.9	11.9	11.9	11.9	13.9
147.5°	11.9	9.9	9.9	9.9	11.9
150°	9.9	7.9	7.9	7.9	9.9
152.5°	7.9	6.0	4.0	6.0	7.9
155°	6.0	6.0	2.0	4.0	6.0
157.5°	4.0	4.0	0.0	2.0	4.0
160°	2.0	2.0	0.0	2.0	2.0
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)