

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: P384348

Luminaire Tested: **24ID-40-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384348
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-40-L840-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

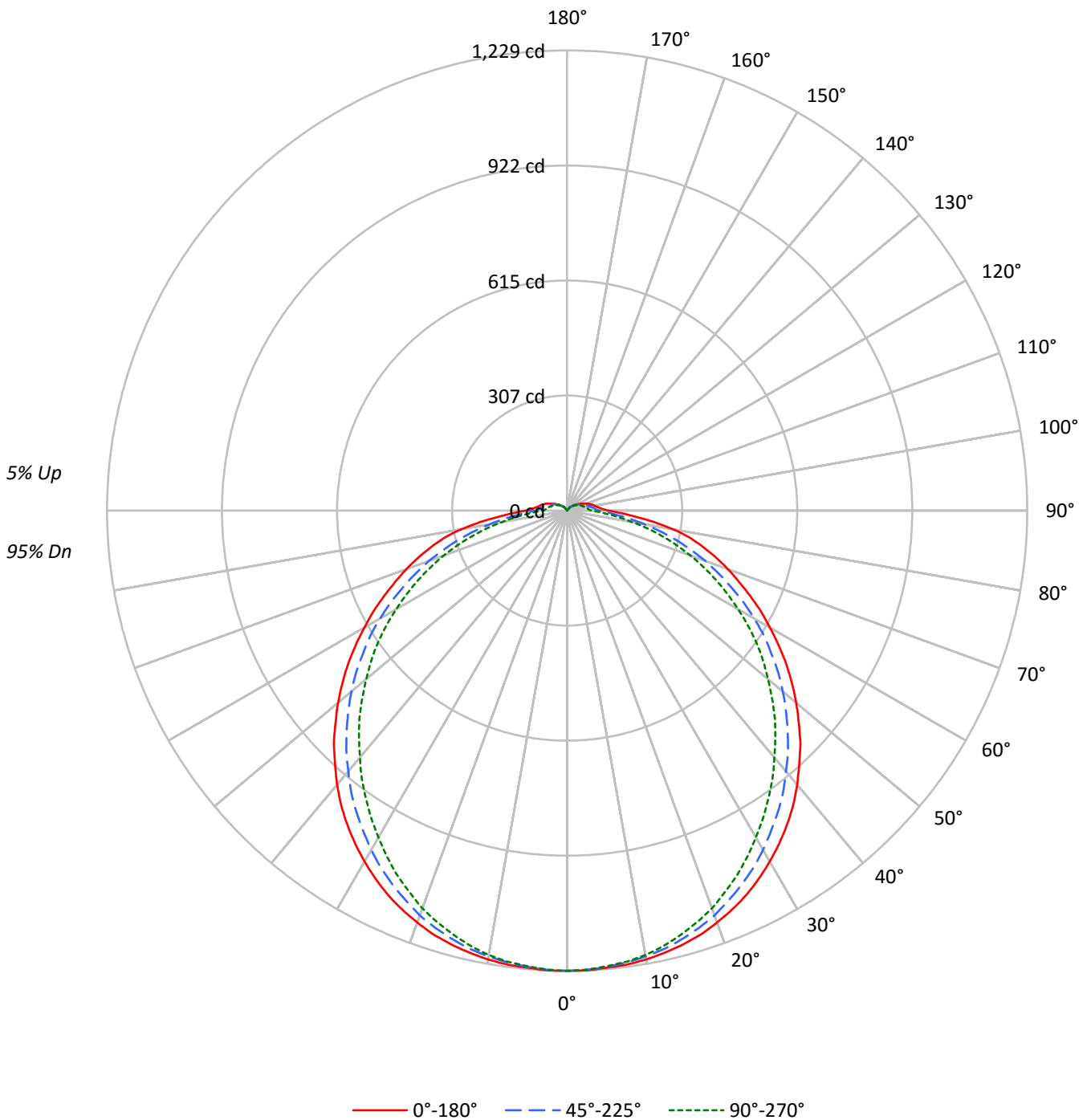
Lumens per Lamp: N/A
Luminaire Lumens: 3986.9 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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°	1654	1654	1654
5°	1649	1639	1637
10°	1651	1627	1623
15°	1652	1612	1598
20°	1651	1596	1571
25°	1650	1572	1535
30°	1642	1546	1494
35°	1634	1519	1455
40°	1622	1487	1414
45°	1610	1456	1378
50°	1593	1425	1333
55°	1581	1387	1295
60°	1570	1347	1240
65°	1576	1292	1185
70°	1612	1242	1121
75°	1693	1172	1037
80°	1803	1080	931
85°	1894	1020	859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	2.9
10°-20°	334.5	8.4
20°-30°	508.1	12.7
30°-40°	613.8	15.4
40°-50°	642.4	16.1
50°-60°	596.1	15.0
60°-70°	482.8	12.1
70°-80°	325.8	8.2
80°-90°	157.4	3.9
90°-100°	79.2	2.0
100°-110°	57.6	1.4
110°-120°	38.5	1.0
120°-130°	22.3	0.6
130°-140°	11.3	0.3
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	959.0	24.1
0°-40°	1572.8	39.4
0°-60°	2811.2	70.5
0°-90°	3777.3	94.7
90°-120°	175.2	4.4
90°-150°	209.6	5.3
90°-180°	210.0	5.3
0°-180°	3986.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1225	1223	1223	1221	1221	117
15°	1199	1193	1185	1177	1173	339
25°	1133	1123	1102	1082	1074	522
35°	1024	1010	982	952	938	641
45°	881	865	833	799	785	679
55°	714	698	666	634	618	638
65°	539	519	483	457	439	535
75°	376	338	300	278	262	396
85°	181	157	133	121	109	171
90°	109	99	84	76	64	62
95°	86	80	72	64	56	68
105°	64	60	54	48	44	69
115°	44	40	40	34	34	44
125°	28	24	26	22	24	25
135°	16	14	14	14	16	13
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.2	1229.2	1229.2	1229.2	1229.2
2.5°	1229.2	1227.2	1227.2	1227.2	1227.2
5°	1225.2	1223.2	1223.2	1221.2	1221.2
7.5°	1223.2	1219.2	1217.2	1215.2	1215.2
10°	1217.2	1213.1	1209.1	1205.1	1205.1
12.5°	1209.1	1205.1	1199.1	1191.0	1191.0
15°	1199.1	1193.0	1185.0	1176.9	1172.9
17.5°	1187.0	1181.0	1168.9	1156.8	1152.8
20°	1170.9	1162.8	1150.8	1134.7	1130.7
22.5°	1152.8	1144.7	1126.6	1110.5	1102.5
25°	1132.7	1122.6	1102.5	1082.4	1074.3
27.5°	1108.5	1098.5	1076.3	1052.2	1042.1
30°	1082.4	1070.3	1046.2	1020.0	1007.9
32.5°	1054.2	1040.1	1014.0	985.8	973.7
35°	1024.0	1009.9	981.8	951.6	937.5
37.5°	991.8	977.8	947.6	915.4	901.3
40°	955.6	941.5	909.4	877.2	861.1
42.5°	917.4	905.3	873.1	838.9	822.8
45°	881.2	865.1	832.9	798.7	784.6
47.5°	838.9	826.9	792.7	758.5	742.4
50°	798.7	784.6	752.4	718.2	700.1
52.5°	756.5	744.4	710.2	676.0	659.9
55°	714.2	698.1	665.9	633.7	617.6
57.5°	669.9	655.9	623.7	593.5	573.4
60°	625.7	611.6	577.4	549.2	527.1
62.5°	583.4	567.3	531.1	500.9	482.8
65°	539.2	519.1	482.8	456.7	438.6
67.5°	496.9	472.8	436.6	412.4	394.3
70°	456.7	428.5	392.3	368.2	350.1
72.5°	416.5	382.3	344.0	321.9	305.8
75°	376.2	338.0	299.8	277.6	261.5
77.5°	336.0	291.7	253.5	235.4	219.3
80°	287.7	245.4	209.2	193.1	177.0
82.5°	233.4	199.2	169.0	152.9	140.8
85°	181.1	156.9	132.8	120.7	108.6
87.5°	140.8	122.7	104.6	94.6	84.5
90°	108.6	98.6	84.5	76.5	64.4
92.5°	94.6	86.5	76.5	68.4	58.3
95°	86.5	80.5	72.4	64.4	56.3
97.5°	78.5	74.4	66.4	60.4	52.3
100°	74.4	68.4	62.4	56.3	50.3
102.5°	70.4	64.4	58.3	52.3	48.3
105°	64.4	60.4	54.3	48.3	44.3
107.5°	60.4	54.3	50.3	44.3	42.2
110°	54.3	50.3	46.3	42.2	40.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.3	46.3	42.2	38.2	36.2
115°	44.3	40.2	40.2	34.2	34.2
117.5°	40.2	36.2	36.2	32.2	32.2
120°	34.2	32.2	32.2	28.2	28.2
122.5°	30.2	28.2	28.2	26.2	26.2
125°	28.2	24.1	26.2	22.1	24.1
127.5°	24.1	22.1	22.1	20.1	22.1
130°	20.1	18.1	18.1	18.1	20.1
132.5°	18.1	16.1	16.1	16.1	18.1
135°	16.1	14.1	14.1	14.1	16.1
137.5°	14.1	12.1	10.1	12.1	14.1
140°	12.1	10.1	8.0	10.1	12.1
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)