

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: P384347

Luminaire Tested: **24ID-40-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384347
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-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

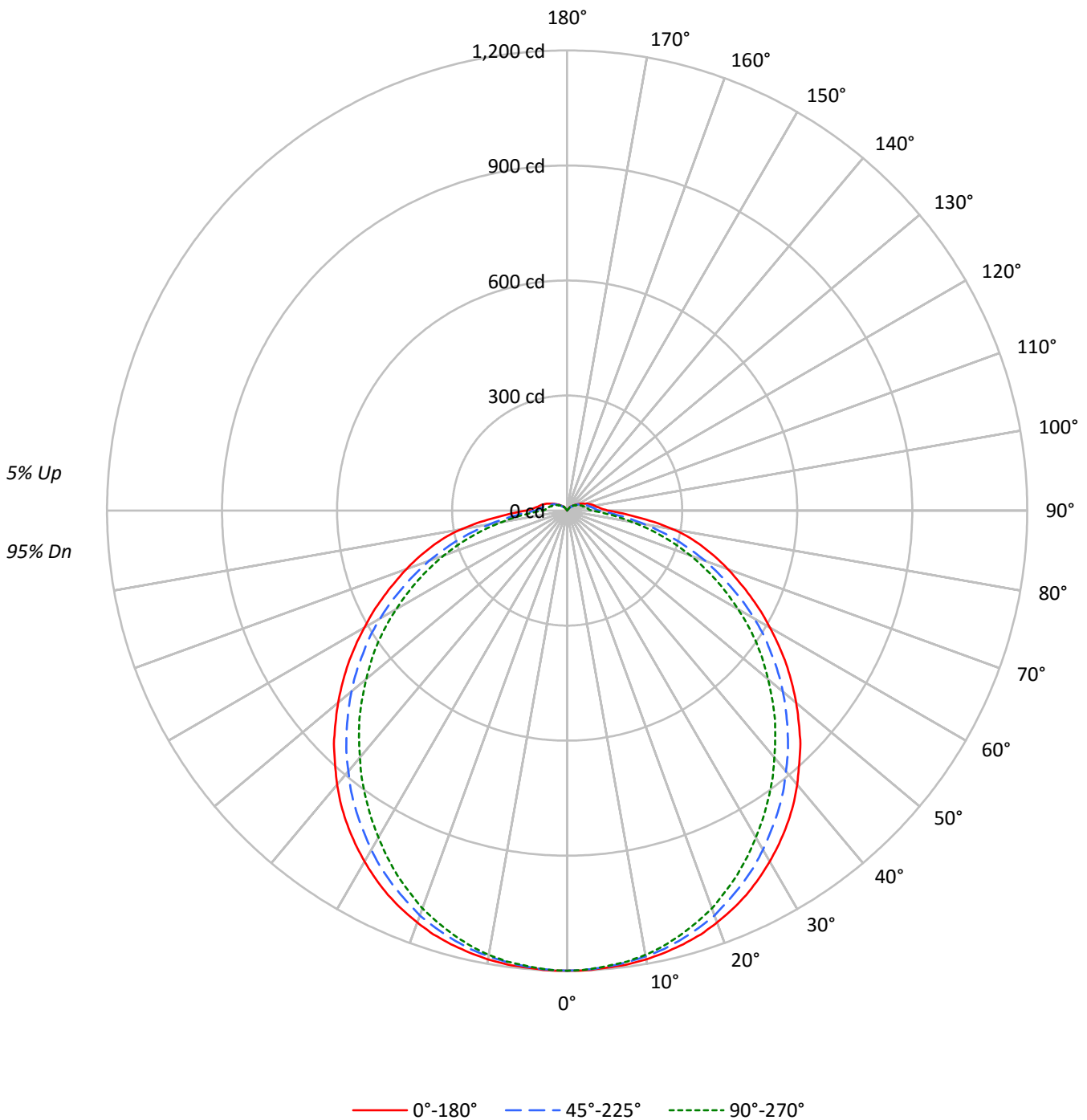
Lumens per Lamp: N/A
Luminaire Lumens: 3892.4 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (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	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°	1615	1615	1615
5°	1610	1601	1599
10°	1612	1588	1584
15°	1613	1574	1560
20°	1612	1559	1534
25°	1610	1535	1499
30°	1603	1510	1459
35°	1596	1483	1421
40°	1583	1452	1380
45°	1572	1422	1345
50°	1555	1391	1301
55°	1544	1354	1264
60°	1533	1316	1210
65°	1538	1262	1157
70°	1574	1212	1094
75°	1652	1144	1012
80°	1760	1054	909
85°	1849	995	839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	2.9
10°-20°	326.6	8.4
20°-30°	496.1	12.7
30°-40°	599.2	15.4
40°-50°	627.2	16.1
50°-60°	581.9	15.0
60°-70°	471.4	12.1
70°-80°	318.1	8.2
80°-90°	153.7	3.9
90°-100°	77.3	2.0
100°-110°	56.2	1.4
110°-120°	37.6	1.0
120°-130°	21.8	0.6
130°-140°	11.0	0.3
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	936.3	24.1
0°-40°	1535.5	39.4
0°-60°	2744.6	70.5
0°-90°	3687.8	94.7
90°-120°	171.1	4.4
90°-150°	204.7	5.3
90°-180°	205.0	5.3
0°-180°	3892.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1196	1194	1194	1192	1192	114
15°	1171	1165	1157	1149	1145	331
25°	1106	1096	1076	1057	1049	510
35°	1000	986	958	929	915	625
45°	860	845	813	780	766	663
55°	697	682	650	619	603	623
65°	526	507	471	446	428	522
75°	367	330	293	271	255	387
85°	177	153	130	118	106	167
90°	106	96	82	75	63	61
95°	84	79	71	63	55	66
105°	63	59	53	47	43	67
115°	43	39	39	33	33	43
125°	28	24	26	22	24	24
135°	16	14	14	14	16	12
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°	1200.1	1200.1	1200.1	1200.1	1200.1
2.5°	1200.1	1198.1	1198.1	1198.1	1198.1
5°	1196.2	1194.2	1194.2	1192.2	1192.2
7.5°	1194.2	1190.3	1188.3	1186.4	1186.4
10°	1188.3	1184.4	1180.5	1176.5	1176.5
12.5°	1180.5	1176.5	1170.6	1162.8	1162.8
15°	1170.6	1164.7	1156.9	1149.0	1145.1
17.5°	1158.9	1153.0	1141.2	1129.4	1125.5
20°	1143.1	1135.3	1123.5	1107.8	1103.9
22.5°	1125.5	1117.6	1099.9	1084.2	1076.4
25°	1105.8	1096.0	1076.4	1056.7	1048.9
27.5°	1082.3	1072.4	1050.8	1027.3	1017.4
30°	1056.7	1044.9	1021.4	995.8	984.0
32.5°	1029.2	1015.5	989.9	962.4	950.7
35°	999.8	986.0	958.5	929.0	915.3
37.5°	968.3	954.6	925.1	893.7	879.9
40°	933.0	919.2	887.8	856.4	840.7
42.5°	895.7	883.9	852.4	819.1	803.3
45°	860.3	844.6	813.2	779.8	766.0
47.5°	819.1	807.3	773.9	740.5	724.8
50°	779.8	766.0	734.6	701.2	683.5
52.5°	738.5	726.7	693.3	660.0	644.2
55°	697.3	681.6	650.1	618.7	603.0
57.5°	654.1	640.3	608.9	579.4	559.8
60°	610.9	597.1	563.7	536.2	514.6
62.5°	569.6	553.9	518.5	489.1	471.4
65°	526.4	506.8	471.4	445.9	428.2
67.5°	485.1	461.6	426.2	402.7	385.0
70°	445.9	418.4	383.0	359.4	341.8
72.5°	406.6	373.2	335.9	314.3	298.6
75°	367.3	330.0	292.7	271.1	255.3
77.5°	328.0	284.8	247.5	229.8	214.1
80°	280.9	239.6	204.3	188.6	172.8
82.5°	227.8	194.5	165.0	149.3	137.5
85°	176.8	153.2	129.6	117.8	106.1
87.5°	137.5	119.8	102.1	92.3	82.5
90°	106.1	96.2	82.5	74.6	62.9
92.5°	92.3	84.5	74.6	66.8	57.0
95°	84.5	78.6	70.7	62.9	55.0
97.5°	76.6	72.7	64.8	58.9	51.1
100°	72.7	66.8	60.9	55.0	49.1
102.5°	68.7	62.9	57.0	51.1	47.1
105°	62.9	58.9	53.0	47.1	43.2
107.5°	58.9	53.0	49.1	43.2	41.2
110°	53.0	49.1	45.2	41.2	39.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.1	45.2	41.2	37.3	35.4
115°	43.2	39.3	39.3	33.4	33.4
117.5°	39.3	35.4	35.4	31.4	31.4
120°	33.4	31.4	31.4	27.5	27.5
122.5°	29.5	27.5	27.5	25.5	25.5
125°	27.5	23.6	25.5	21.6	23.6
127.5°	23.6	21.6	21.6	19.6	21.6
130°	19.6	17.7	17.7	17.7	19.6
132.5°	17.7	15.7	15.7	15.7	17.7
135°	15.7	13.7	13.7	13.7	15.7
137.5°	13.7	11.8	9.8	11.8	13.7
140°	11.8	9.8	7.9	9.8	11.8
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)