

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: P384176

Luminaire Tested: **24ID-35-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-35-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

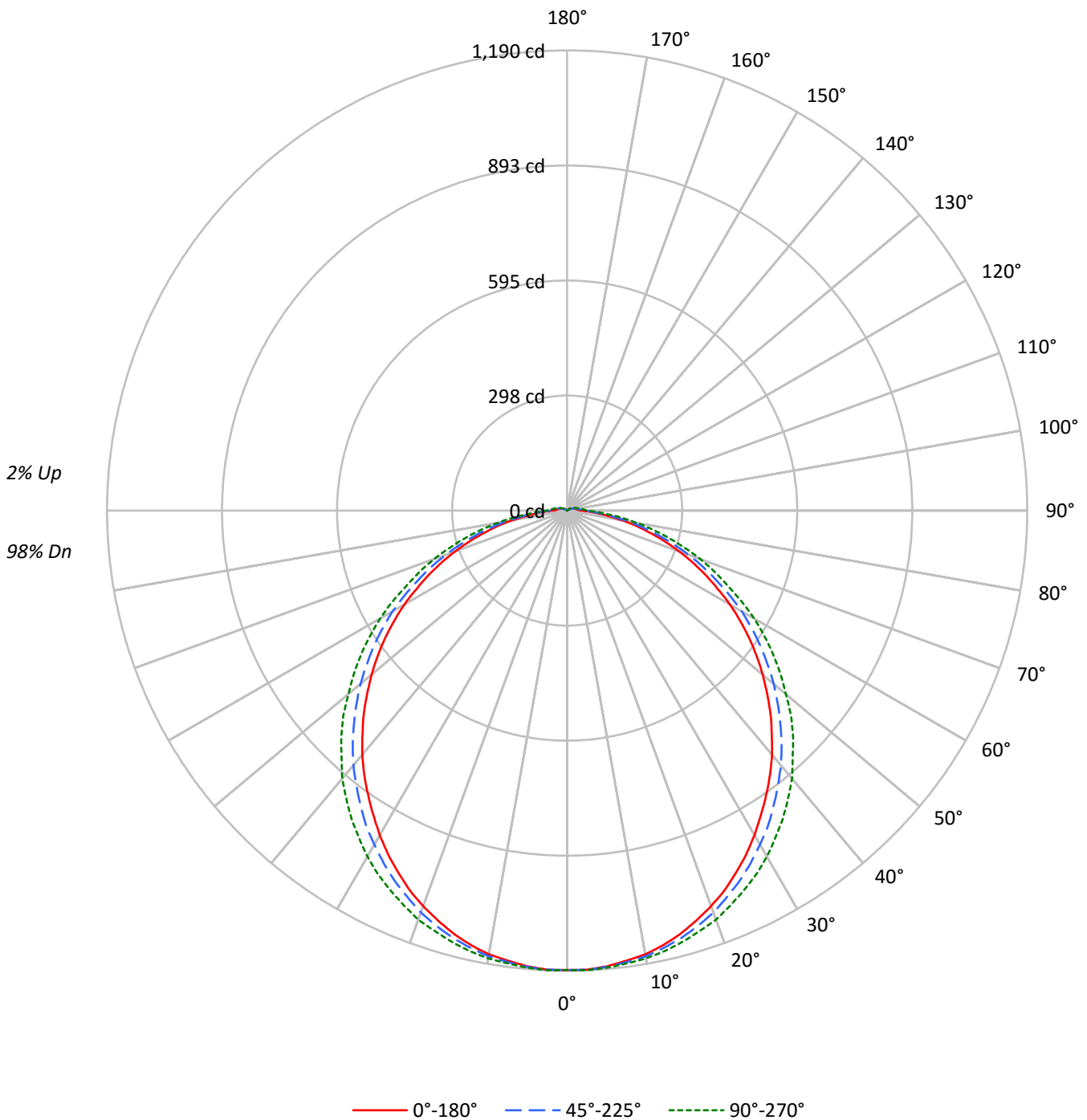
Lumens per Lamp: N/A
Luminaire Lumens: 3519.1 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 30.2
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1599	1599	1599
5°	1595	1594	1597
10°	1586	1587	1595
15°	1569	1574	1590
20°	1547	1559	1588
25°	1519	1536	1577
30°	1487	1511	1567
35°	1453	1484	1552
40°	1423	1456	1535
45°	1387	1421	1509
50°	1348	1387	1473
55°	1309	1346	1442
60°	1265	1302	1402
65°	1207	1235	1335
70°	1142	1170	1291
75°	1067	1083	1220
80°	989	984	1141
85°	956	915	1082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.2
10°-20°	322.6	9.2
20°-30°	487.0	13.8
30°-40°	583.5	16.6
40°-50°	603.3	17.1
50°-60°	546.4	15.5
60°-70°	422.8	12.0
70°-80°	259.7	7.4
80°-90°	103.2	2.9
90°-100°	37.6	1.1
100°-110°	23.1	0.7
110°-120°	11.9	0.3
120°-130°	5.1	0.1
130°-140°	0.3	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	922.1	26.2
0°-40°	1505.7	42.8
0°-60°	2655.4	75.5
0°-90°	3441.0	97.8
90°-120°	72.7	2.1
90°-150°	78.1	2.2
90°-180°	78.0	2.2
0°-180°	3519.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1183	1183	1185	1185	1186	112
15°	1133	1135	1144	1151	1154	319
25°	1033	1040	1056	1074	1083	476
35°	897	908	931	956	972	562
45°	744	753	780	812	826	573
55°	574	587	610	637	651	513
65°	396	405	425	446	457	392
75°	221	232	243	259	271	236
85°	77	82	89	98	104	76
90°	36	41	45	50	54	21
95°	27	30	34	38	41	21
105°	20	20	21	23	25	21
115°	12	11	11	12	14	13
125°	7	5	4	5	7	7
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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°	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1188.2	1186.4	1188.2	1188.2	1190.0
5°	1182.9	1182.9	1184.6	1184.6	1186.4
7.5°	1173.9	1173.9	1177.5	1179.3	1181.1
10°	1165.0	1165.0	1170.4	1172.2	1175.7
12.5°	1150.7	1152.5	1157.9	1163.2	1166.8
15°	1132.9	1134.7	1143.6	1150.7	1154.3
17.5°	1111.5	1115.1	1125.8	1136.5	1140.0
20°	1088.3	1093.7	1106.1	1118.6	1125.8
22.5°	1063.3	1066.9	1081.2	1097.2	1104.4
25°	1033.0	1040.1	1056.2	1074.0	1082.9
27.5°	1002.7	1009.8	1027.6	1049.1	1059.8
30°	968.8	975.9	997.3	1020.5	1033.0
32.5°	933.1	942.0	967.0	990.2	1002.7
35°	897.4	908.1	931.3	956.3	972.3
37.5°	861.7	870.6	895.6	922.4	938.4
40°	824.3	833.2	859.9	886.7	904.5
42.5°	783.2	793.9	820.7	849.2	863.5
45°	744.0	752.9	779.7	811.8	826.0
47.5°	701.2	713.6	738.6	768.9	785.0
50°	660.1	670.8	697.6	726.1	738.6
52.5°	617.3	628.0	653.0	681.5	695.8
55°	574.5	587.0	610.2	636.9	651.2
57.5°	529.9	542.4	565.6	588.8	604.8
60°	487.1	499.5	521.0	544.2	558.4
62.5°	438.9	449.6	472.8	497.8	508.5
65°	396.1	405.0	424.6	446.0	456.7
67.5°	351.5	362.2	380.0	399.6	412.1
70°	306.9	319.4	333.6	351.5	365.7
72.5°	264.0	274.8	287.2	305.1	317.6
75°	221.2	231.9	242.6	258.7	271.2
77.5°	183.8	189.1	199.8	214.1	226.6
80°	142.7	149.9	158.8	173.1	182.0
82.5°	107.0	114.2	121.3	132.0	140.9
85°	76.7	82.1	89.2	98.1	103.5
87.5°	51.7	57.1	62.4	69.6	74.9
90°	35.7	41.0	44.6	50.0	53.5
92.5°	30.3	33.9	37.5	41.0	44.6
95°	26.8	30.3	33.9	37.5	41.0
97.5°	25.0	26.8	30.3	33.9	35.7
100°	23.2	25.0	26.8	30.3	32.1
102.5°	21.4	21.4	25.0	26.8	28.5
105°	19.6	19.6	21.4	23.2	25.0
107.5°	17.8	17.8	19.6	19.6	23.2
110°	16.1	14.3	16.1	16.1	19.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.3	12.5	14.3	14.3	16.1
115°	12.5	10.7	10.7	12.5	14.3
117.5°	10.7	8.9	8.9	8.9	12.5
120°	10.7	8.9	7.1	7.1	10.7
122.5°	8.9	7.1	5.4	7.1	8.9
125°	7.1	5.4	3.6	5.4	7.1
127.5°	5.4	5.4	1.8	3.6	5.4
130°	5.4	3.6	1.8	3.6	3.6
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)