

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: P384240

Luminaire Tested: **14ID-40-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384240
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: 14ID-40-L840-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

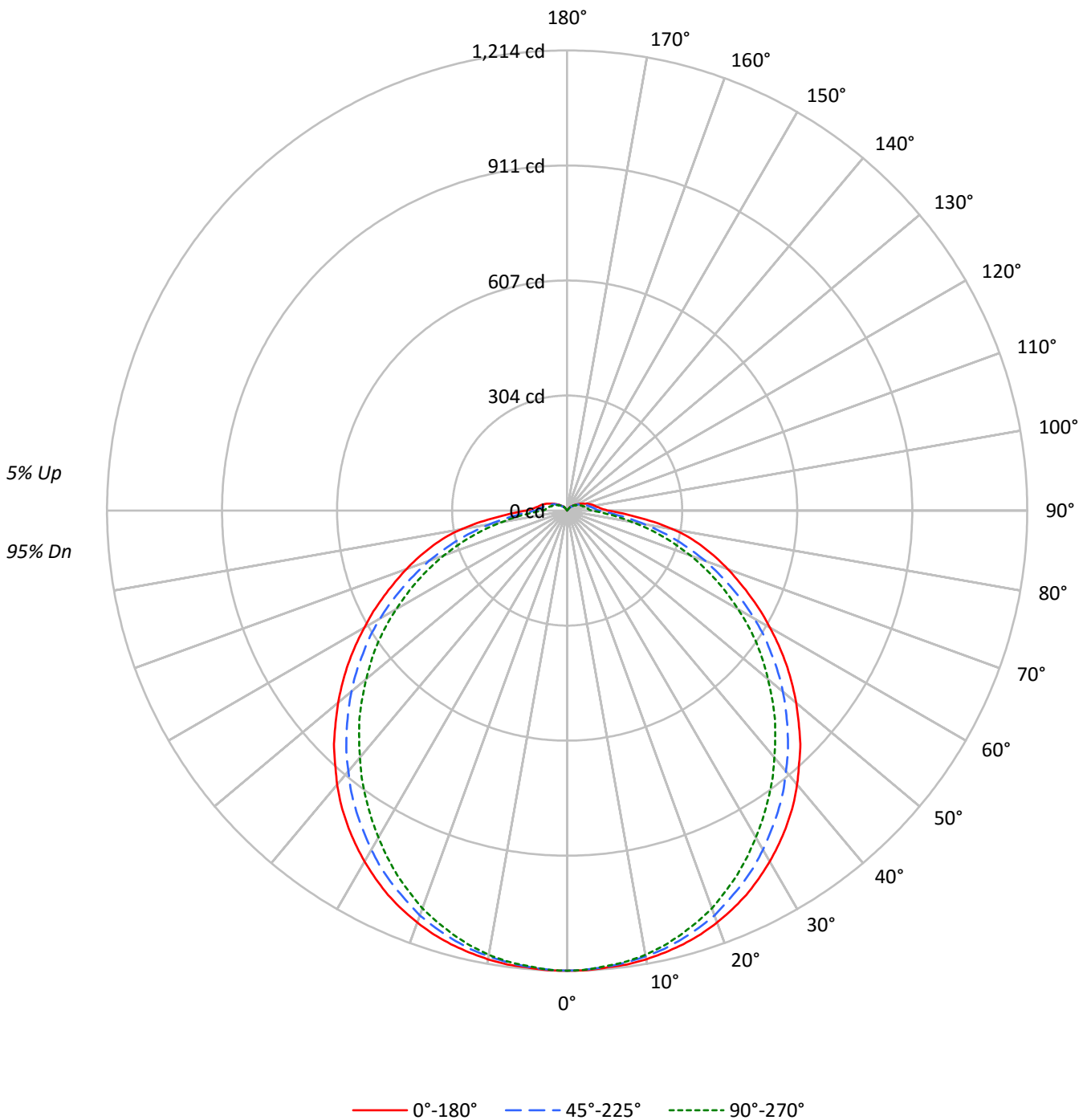
Lumens per Lamp: N/A
Luminaire Lumens: 3937.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.4
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°	3267	3267	3267
5°	3257	3222	3211
10°	3261	3180	3159
15°	3263	3137	3089
20°	3262	3089	3015
25°	3258	3025	2923
30°	3243	2959	2821
35°	3228	2887	2724
40°	3203	2808	2621
45°	3179	2729	2528
50°	3146	2646	2415
55°	3123	2549	2312
60°	3102	2445	2174
65°	3113	2307	2032
70°	3184	2170	1866
75°	3343	1986	1656
80°	3561	1744	1393
85°	3740	1508	1140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	2.9
10°-20°	330.4	8.4
20°-30°	501.8	12.7
30°-40°	606.1	15.4
40°-50°	634.4	16.1
50°-60°	588.7	15.0
60°-70°	476.8	12.1
70°-80°	321.8	8.2
80°-90°	155.5	3.9
90°-100°	78.2	2.0
100°-110°	56.8	1.4
110°-120°	38.0	1.0
120°-130°	22.0	0.6
130°-140°	11.1	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°	947.1	24.1
0°-40°	1553.2	39.4
0°-60°	2776.3	70.5
0°-90°	3730.4	94.7
90°-120°	173.1	4.4
90°-150°	207.0	5.3
90°-180°	207.0	5.3
0°-180°	3937.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1210	1208	1208	1206	1206	115
15°	1184	1178	1170	1162	1158	335
25°	1119	1109	1089	1069	1061	515
35°	1011	997	970	940	926	633
45°	870	854	823	789	775	670
55°	705	689	658	626	610	630
65°	532	513	477	451	433	528
75°	372	334	296	274	258	391
85°	179	155	131	119	107	169
90°	107	97	83	76	64	61
95°	85	80	72	64	56	67
105°	64	60	54	48	44	68
115°	44	40	40	34	34	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°	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1214.0	1212.0	1212.0	1212.0	1212.0
5°	1210.0	1208.0	1208.0	1206.0	1206.0
7.5°	1208.0	1204.0	1202.1	1200.1	1200.1
10°	1202.1	1198.1	1194.1	1190.1	1190.1
12.5°	1194.1	1190.1	1184.2	1176.2	1176.2
15°	1184.2	1178.2	1170.3	1162.3	1158.3
17.5°	1172.3	1166.3	1154.4	1142.4	1138.5
20°	1156.4	1148.4	1136.5	1120.6	1116.6
22.5°	1138.5	1130.5	1112.6	1096.7	1088.8
25°	1118.6	1108.7	1088.8	1068.9	1061.0
27.5°	1094.8	1084.8	1063.0	1039.1	1029.2
30°	1068.9	1057.0	1033.2	1007.3	995.4
32.5°	1041.1	1027.2	1001.4	973.6	961.6
35°	1011.3	997.4	969.6	939.8	925.9
37.5°	979.5	965.6	935.8	904.0	890.1
40°	943.8	929.9	898.1	866.3	850.4
42.5°	906.0	894.1	862.3	828.5	812.6
45°	870.2	854.4	822.6	788.8	774.9
47.5°	828.5	816.6	782.8	749.0	733.2
50°	788.8	774.9	743.1	709.3	691.4
52.5°	747.1	735.1	701.4	667.6	651.7
55°	705.3	689.4	657.7	625.9	610.0
57.5°	661.6	647.7	615.9	586.1	566.3
60°	617.9	604.0	570.2	542.4	520.6
62.5°	576.2	560.3	524.5	494.7	476.8
65°	532.5	512.6	476.8	451.0	433.1
67.5°	490.8	466.9	431.1	407.3	389.4
70°	451.0	423.2	387.4	363.6	345.7
72.5°	411.3	377.5	339.8	317.9	302.0
75°	371.5	333.8	296.0	274.2	258.3
77.5°	331.8	288.1	250.3	232.5	216.6
80°	284.1	242.4	206.6	190.7	174.8
82.5°	230.5	196.7	166.9	151.0	139.1
85°	178.8	155.0	131.1	119.2	107.3
87.5°	139.1	121.2	103.3	93.4	83.4
90°	107.3	97.4	83.4	75.5	63.6
92.5°	93.4	85.4	75.5	67.6	57.6
95°	85.4	79.5	71.5	63.6	55.6
97.5°	77.5	73.5	65.6	59.6	51.7
100°	73.5	67.6	61.6	55.6	49.7
102.5°	69.5	63.6	57.6	51.7	47.7
105°	63.6	59.6	53.6	47.7	43.7
107.5°	59.6	53.6	49.7	43.7	41.7
110°	53.6	49.7	45.7	41.7	39.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.7	45.7	41.7	37.8	35.8
115°	43.7	39.7	39.7	33.8	33.8
117.5°	39.7	35.8	35.8	31.8	31.8
120°	33.8	31.8	31.8	27.8	27.8
122.5°	29.8	27.8	27.8	25.8	25.8
125°	27.8	23.8	25.8	21.9	23.8
127.5°	23.8	21.9	21.9	19.9	21.9
130°	19.9	17.9	17.9	17.9	19.9
132.5°	17.9	15.9	15.9	15.9	17.9
135°	15.9	13.9	13.9	13.9	15.9
137.5°	13.9	11.9	9.9	11.9	13.9
140°	11.9	9.9	7.9	9.9	11.9
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

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