

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: P384224

Luminaire Tested: **14ID-20-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384224
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-20-L840-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

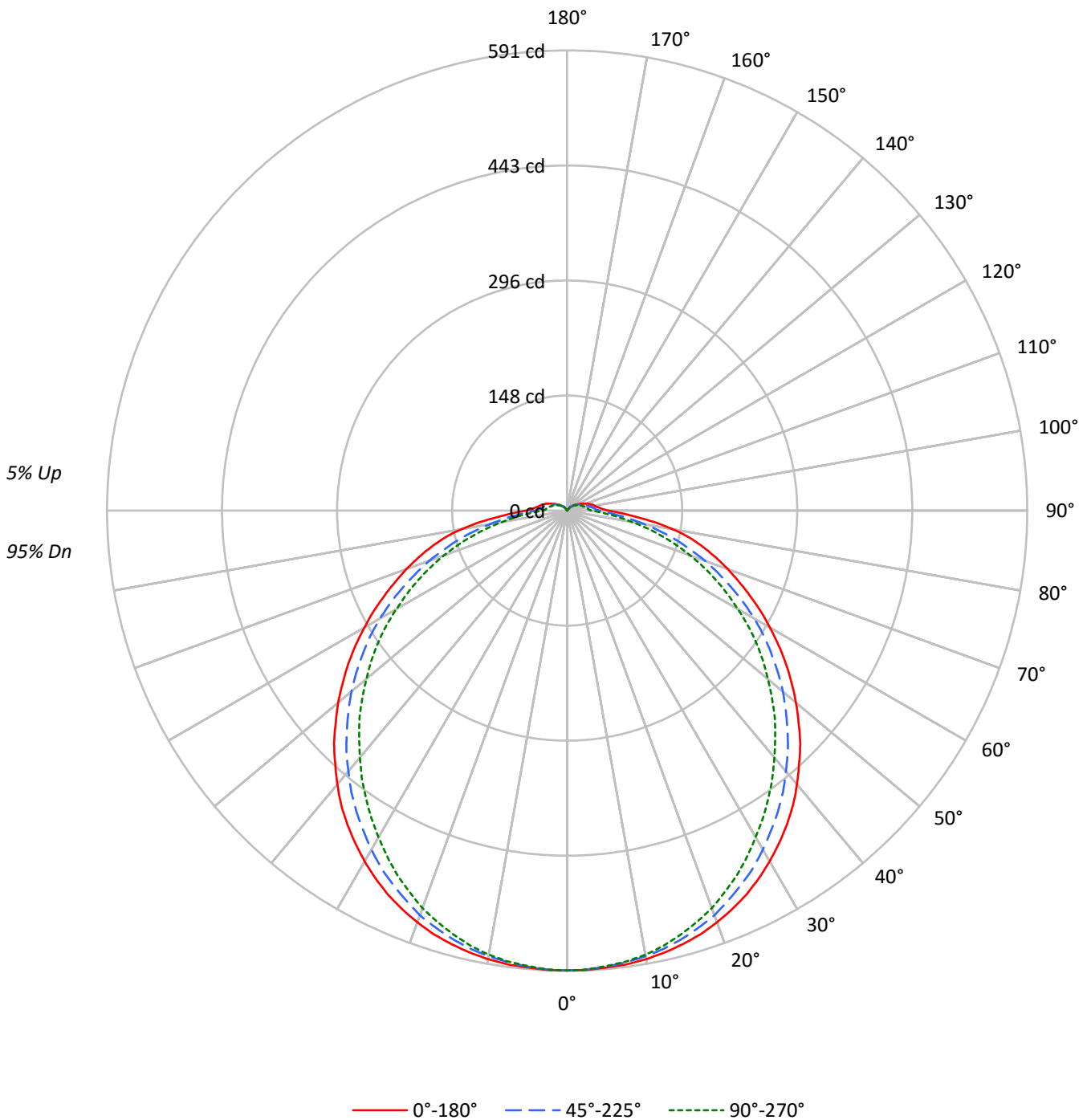
Lumens per Lamp: N/A
Luminaire Lumens: 1916.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.5
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



TEST NUMBER: P384224
CATALOG NUMBER: 14ID-20-L840-CFD2

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°	1590	1590	1590
5°	1585	1568	1563
10°	1587	1548	1537
15°	1588	1526	1503
20°	1587	1503	1467
25°	1585	1472	1422
30°	1578	1440	1373
35°	1571	1405	1325
40°	1559	1366	1275
45°	1547	1328	1230
50°	1531	1288	1175
55°	1520	1240	1125
60°	1509	1190	1058
65°	1514	1123	989
70°	1550	1056	908
75°	1627	967	806
80°	1734	849	678
85°	1820	734	555



TEST NUMBER: P384224

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	2.9
10°-20°	160.8	8.4
20°-30°	244.2	12.7
30°-40°	295.0	15.4
40°-50°	308.7	16.1
50°-60°	286.5	15.0
60°-70°	232.0	12.1
70°-80°	156.6	8.2
80°-90°	75.7	3.9
90°-100°	38.1	2.0
100°-110°	27.7	1.4
110°-120°	18.5	1.0
120°-130°	10.7	0.6
130°-140°	5.4	0.3
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	460.9	24.1
0°-40°	755.8	39.4
0°-60°	1351.0	70.5
0°-90°	1815.2	94.7
90°-120°	84.2	4.4
90°-150°	100.7	5.3
90°-180°	101.0	5.3
0°-180°	1916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	591	591	591	591	591	
5°	589	588	588	587	587	56
15°	576	573	570	566	564	163
25°	544	540	530	520	516	251
35°	492	485	472	457	450	308
45°	424	416	400	384	377	326
55°	343	336	320	305	297	307
65°	259	249	232	220	211	257
75°	181	162	144	133	126	190
85°	87	75	64	58	52	82
90°	52	47	41	37	31	30
95°	42	39	35	31	27	33
105°	31	29	26	23	21	33
115°	21	19	19	16	16	21
125°	14	12	13	11	12	12
135°	8	7	7	7	8	6
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



TEST NUMBER: P384224

CATALOG NUMBER: 14ID-20-L840-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.7	590.7	590.7	590.7	590.7
2.5°	590.7	589.8	589.8	589.8	589.8
5°	588.8	587.8	587.8	586.9	586.9
7.5°	587.8	585.9	584.9	584.0	584.0
10°	584.9	583.0	581.1	579.1	579.1
12.5°	581.1	579.1	576.2	572.4	572.4
15°	576.2	573.3	569.5	565.6	563.7
17.5°	570.4	567.5	561.7	555.9	554.0
20°	562.7	558.8	553.0	545.3	543.4
22.5°	554.0	550.1	541.4	533.7	529.8
25°	544.3	539.5	529.8	520.2	516.3
27.5°	532.7	527.9	517.3	505.7	500.8
30°	520.2	514.4	502.8	490.2	484.4
32.5°	506.6	499.9	487.3	473.8	468.0
35°	492.1	485.4	471.8	457.3	450.5
37.5°	476.7	469.9	455.4	439.9	433.1
40°	459.2	452.5	437.0	421.5	413.8
42.5°	440.9	435.1	419.6	403.2	395.4
45°	423.5	415.7	400.3	383.8	377.1
47.5°	403.2	397.4	380.9	364.5	356.8
50°	383.8	377.1	361.6	345.2	336.5
52.5°	363.5	357.7	341.3	324.9	317.1
55°	343.2	335.5	320.0	304.6	296.8
57.5°	322.0	315.2	299.7	285.2	275.5
60°	300.7	293.9	277.5	263.9	253.3
62.5°	280.4	272.6	255.2	240.7	232.0
65°	259.1	249.4	232.0	219.5	210.8
67.5°	238.8	227.2	209.8	198.2	189.5
70°	219.5	205.9	188.5	176.9	168.2
72.5°	200.1	183.7	165.3	154.7	147.0
75°	180.8	162.4	144.1	133.4	125.7
77.5°	161.5	140.2	121.8	113.1	105.4
80°	138.3	118.0	100.6	92.8	85.1
82.5°	112.2	95.7	81.2	73.5	67.7
85°	87.0	75.4	63.8	58.0	52.2
87.5°	67.7	59.0	50.3	45.4	40.6
90°	52.2	47.4	40.6	36.7	30.9
92.5°	45.4	41.6	36.7	32.9	28.0
95°	41.6	38.7	34.8	30.9	27.1
97.5°	37.7	35.8	31.9	29.0	25.1
100°	35.8	32.9	30.0	27.1	24.2
102.5°	33.8	30.9	28.0	25.1	23.2
105°	30.9	29.0	26.1	23.2	21.3
107.5°	29.0	26.1	24.2	21.3	20.3
110°	26.1	24.2	22.2	20.3	19.3



TEST NUMBER: P384224

CATALOG NUMBER: 14ID-20-L840-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.2	22.2	20.3	18.4	17.4
115°	21.3	19.3	19.3	16.4	16.4
117.5°	19.3	17.4	17.4	15.5	15.5
120°	16.4	15.5	15.5	13.5	13.5
122.5°	14.5	13.5	13.5	12.6	12.6
125°	13.5	11.6	12.6	10.6	11.6
127.5°	11.6	10.6	10.6	9.7	10.6
130°	9.7	8.7	8.7	8.7	9.7
132.5°	8.7	7.7	7.7	7.7	8.7
135°	7.7	6.8	6.8	6.8	7.7
137.5°	6.8	5.8	4.8	5.8	6.8
140°	5.8	4.8	3.9	4.8	5.8
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)