

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: P383736

Luminaire Tested: **14ID-40-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-40-L840-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

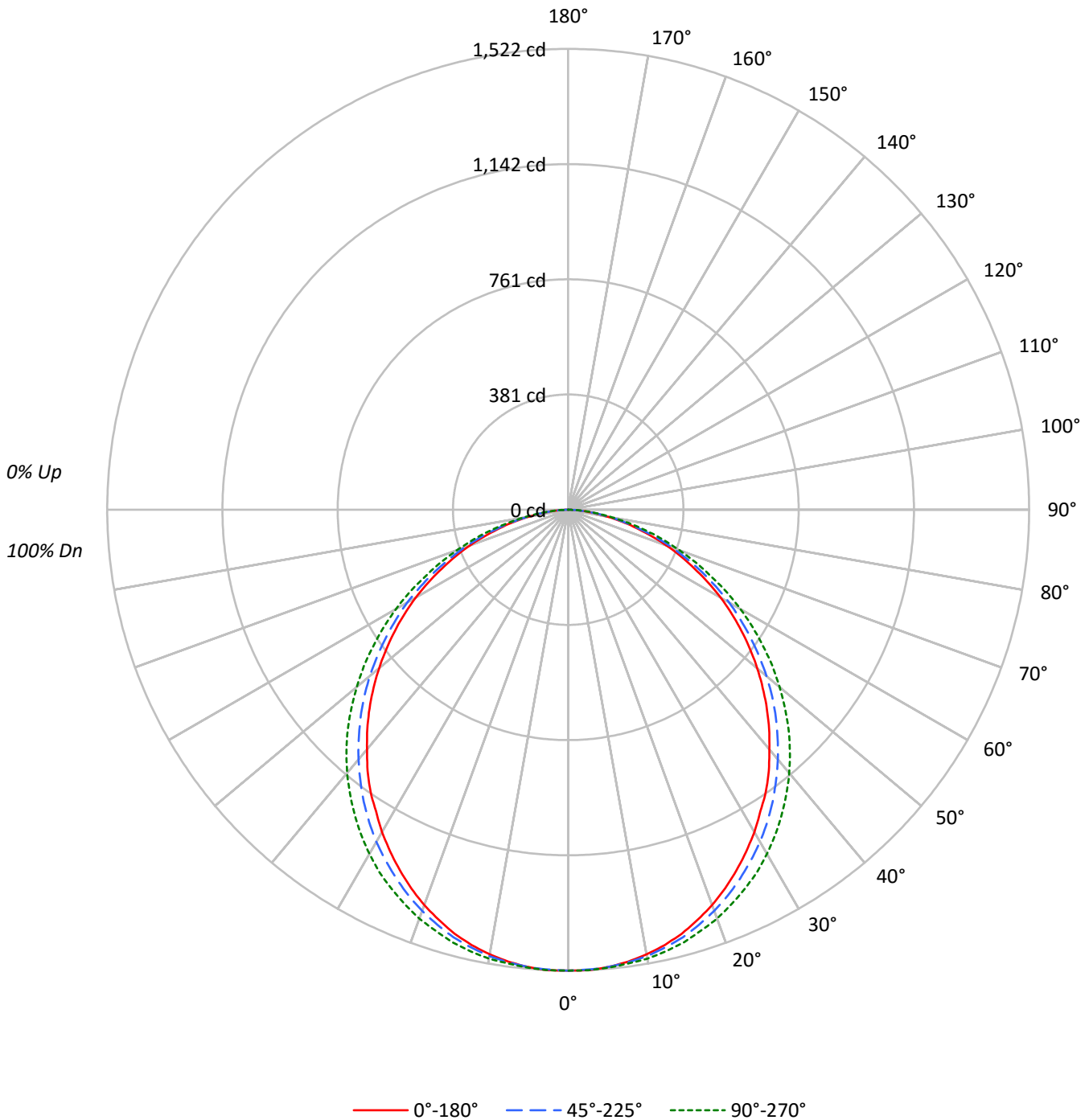
Lumens per Lamp: N/A
Luminaire Lumens: 4134.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P383736
CATALOG NUMBER: 14ID-40-L840-CFR1

Luminous Intensity Polar Plot





TEST NUMBER: P383736

CATALOG NUMBER: 14ID-40-L840-CFR1

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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4097	4097	4097
5°	4096	4096	4101
10°	4075	4092	4115
15°	4038	4073	4120
20°	3979	4038	4115
25°	3903	3989	4100
30°	3819	3936	4078
35°	3737	3867	4038
40°	3631	3784	3989
45°	3530	3688	3918
50°	3413	3579	3813
55°	3278	3445	3689
60°	3134	3302	3537
65°	2926	3099	3310
70°	2716	2864	3060
75°	2421	2551	2768
80°	2030	2128	2320
85°	1541	1541	1735



TEST NUMBER: P383736

CATALOG NUMBER: 14ID-40-L840-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.5
10°-20°	412.3	10.0
20°-30°	619.9	15.0
30°-40°	737.5	17.8
40°-50°	750.4	18.1
50°-60°	660.4	16.0
60°-70°	484.4	11.7
70°-80°	262.9	6.4
80°-90°	62.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1176.3	28.4
0°-40°	1913.7	46.3
0°-60°	3324.5	80.4
0°-90°	4134.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4134.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1516	1514	1516	1516	1518	144
15°	1450	1452	1462	1470	1479	408
25°	1314	1323	1344	1366	1381	605
35°	1138	1146	1177	1212	1229	710
45°	928	936	969	1011	1030	715
55°	699	709	734	770	786	625
65°	460	468	487	508	520	457
75°	233	237	245	258	266	247
85°	50	50	50	54	56	60
90°	0	0	0	0	0	



TEST NUMBER: P383736

CATALOG NUMBER: 14ID-40-L840-CFR1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1522.4	1520.3	1520.3	1520.3	1522.4
5°	1516.2	1514.1	1516.2	1516.2	1518.2
7.5°	1505.8	1503.7	1507.8	1509.9	1512.0
10°	1491.2	1491.2	1497.4	1501.6	1505.8
12.5°	1472.5	1474.6	1480.8	1487.0	1493.3
15°	1449.6	1451.7	1462.1	1470.4	1478.7
17.5°	1420.5	1424.6	1437.1	1449.6	1457.9
20°	1389.3	1395.5	1410.1	1426.7	1437.1
22.5°	1353.9	1362.3	1378.9	1399.7	1410.1
25°	1314.4	1322.7	1343.5	1366.4	1381.0
27.5°	1272.8	1283.2	1306.1	1333.1	1349.8
30°	1229.1	1239.5	1266.6	1295.7	1312.3
32.5°	1181.3	1193.8	1222.9	1256.2	1272.8
35°	1137.6	1146.0	1177.2	1212.5	1229.1
37.5°	1087.7	1098.1	1127.2	1164.7	1183.4
40°	1033.6	1044.0	1077.3	1114.8	1135.6
42.5°	981.7	990.0	1023.2	1064.8	1083.6
45°	927.6	935.9	969.2	1010.8	1029.5
47.5°	871.4	881.8	913.0	952.5	971.3
50°	815.3	823.6	854.8	892.2	910.9
52.5°	757.0	765.4	794.5	831.9	850.6
55°	698.8	709.2	734.2	769.5	786.2
57.5°	640.6	651.0	673.8	707.1	721.7
60°	582.3	590.7	613.5	642.6	657.2
62.5°	519.9	526.2	549.1	578.2	590.7
65°	459.6	467.9	486.7	507.5	519.9
67.5°	403.5	407.6	424.3	447.2	455.5
70°	345.2	349.4	364.0	382.7	388.9
72.5°	287.0	293.2	303.6	320.3	328.6
75°	232.9	237.1	245.4	257.9	266.2
77.5°	180.9	183.0	189.3	199.7	205.9
80°	131.0	133.1	137.3	145.6	149.7
82.5°	87.4	89.4	91.5	95.7	99.8
85°	49.9	49.9	49.9	54.1	56.2
87.5°	18.7	16.6	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)