

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: P385358

Luminaire Tested: **24ID-45-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L830-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

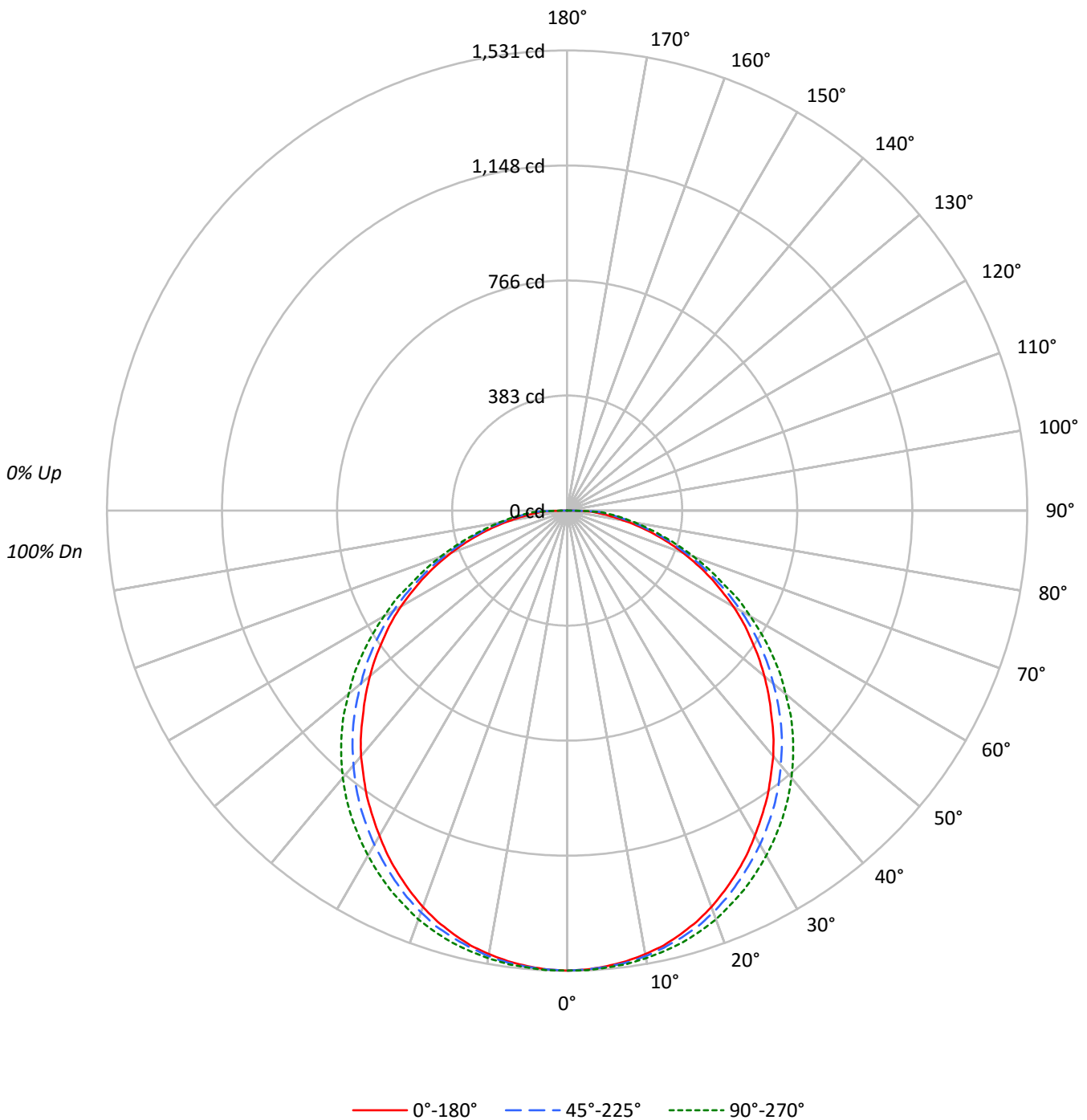
Lumens per Lamp: N/A
Luminaire Lumens: 4439.4 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 40
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2059	2059	2059
5°	2047	2042	2046
10°	2032	2025	2036
15°	2010	2001	2026
20°	1980	1973	2012
25°	1940	1936	1989
30°	1895	1897	1964
35°	1853	1857	1938
40°	1810	1808	1906
45°	1754	1760	1865
50°	1708	1696	1807
55°	1656	1635	1742
60°	1605	1557	1656
65°	1532	1458	1540
70°	1442	1352	1434
75°	1340	1236	1309
80°	1201	1120	1203
85°	1135	1064	1150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.3
10°-20°	415.0	9.3
20°-30°	626.3	14.1
30°-40°	751.8	16.9
40°-50°	778.0	17.5
50°-60°	704.8	15.9
60°-70°	543.0	12.2
70°-80°	336.0	7.6
80°-90°	139.6	3.1
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°	1186.2	26.7
0°-40°	1938.0	43.7
0°-60°	3420.8	77.1
0°-90°	4439.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4439.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1521	1521	1524	1524	1526	145
15°	1459	1461	1471	1480	1487	411
25°	1332	1337	1358	1381	1392	614
35°	1161	1170	1200	1233	1249	726
45°	960	974	1007	1044	1062	743
55°	748	760	785	820	831	670
65°	524	529	545	568	570	518
75°	298	305	316	330	330	315
85°	108	120	138	148	145	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.6	1530.6	1530.6	1530.6	1530.6
2.5°	1528.3	1528.3	1528.3	1528.3	1530.6
5°	1521.4	1521.4	1523.7	1523.7	1526.0
7.5°	1512.1	1512.1	1516.8	1516.8	1521.4
10°	1498.3	1500.6	1505.2	1507.5	1512.1
12.5°	1482.1	1482.1	1489.1	1496.0	1500.6
15°	1459.0	1461.4	1470.6	1479.8	1486.8
17.5°	1433.7	1436.0	1449.8	1459.0	1468.3
20°	1403.6	1405.9	1422.1	1436.0	1447.5
22.5°	1369.0	1373.6	1392.1	1410.6	1419.8
25°	1332.1	1336.7	1357.5	1380.6	1392.1
27.5°	1292.8	1299.8	1320.5	1345.9	1359.8
30°	1249.0	1258.2	1283.6	1311.3	1325.1
32.5°	1205.1	1214.3	1242.0	1274.4	1288.2
35°	1161.2	1170.5	1200.5	1232.8	1249.0
37.5°	1112.8	1122.0	1154.3	1188.9	1207.4
40°	1066.6	1075.8	1105.8	1145.1	1161.2
42.5°	1015.8	1025.0	1057.3	1094.3	1112.8
45°	960.4	974.2	1006.6	1043.5	1062.0
47.5°	909.6	921.1	951.2	990.4	1008.9
50°	856.5	868.0	895.7	935.0	948.8
52.5°	803.4	814.9	842.6	879.6	893.4
55°	748.0	759.5	784.9	819.6	831.1
57.5°	694.9	704.1	727.2	759.5	768.8
60°	639.5	648.7	667.2	697.2	704.1
62.5°	579.5	586.4	607.2	634.9	644.1
65°	524.1	528.7	544.8	567.9	570.2
67.5°	466.3	471.0	487.1	503.3	510.2
70°	408.6	415.6	427.1	443.3	447.9
72.5°	353.2	360.1	371.7	385.5	387.8
75°	297.8	304.7	316.3	330.1	330.1
77.5°	244.7	251.6	265.5	277.0	277.0
80°	191.6	203.2	217.0	228.6	228.6
82.5°	147.8	157.0	175.5	184.7	184.7
85°	108.5	120.0	138.5	147.8	145.4
87.5°	78.5	90.0	106.2	113.1	110.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)