

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: P385086

Luminaire Tested: **14ID-50-L830-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-50-L830-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

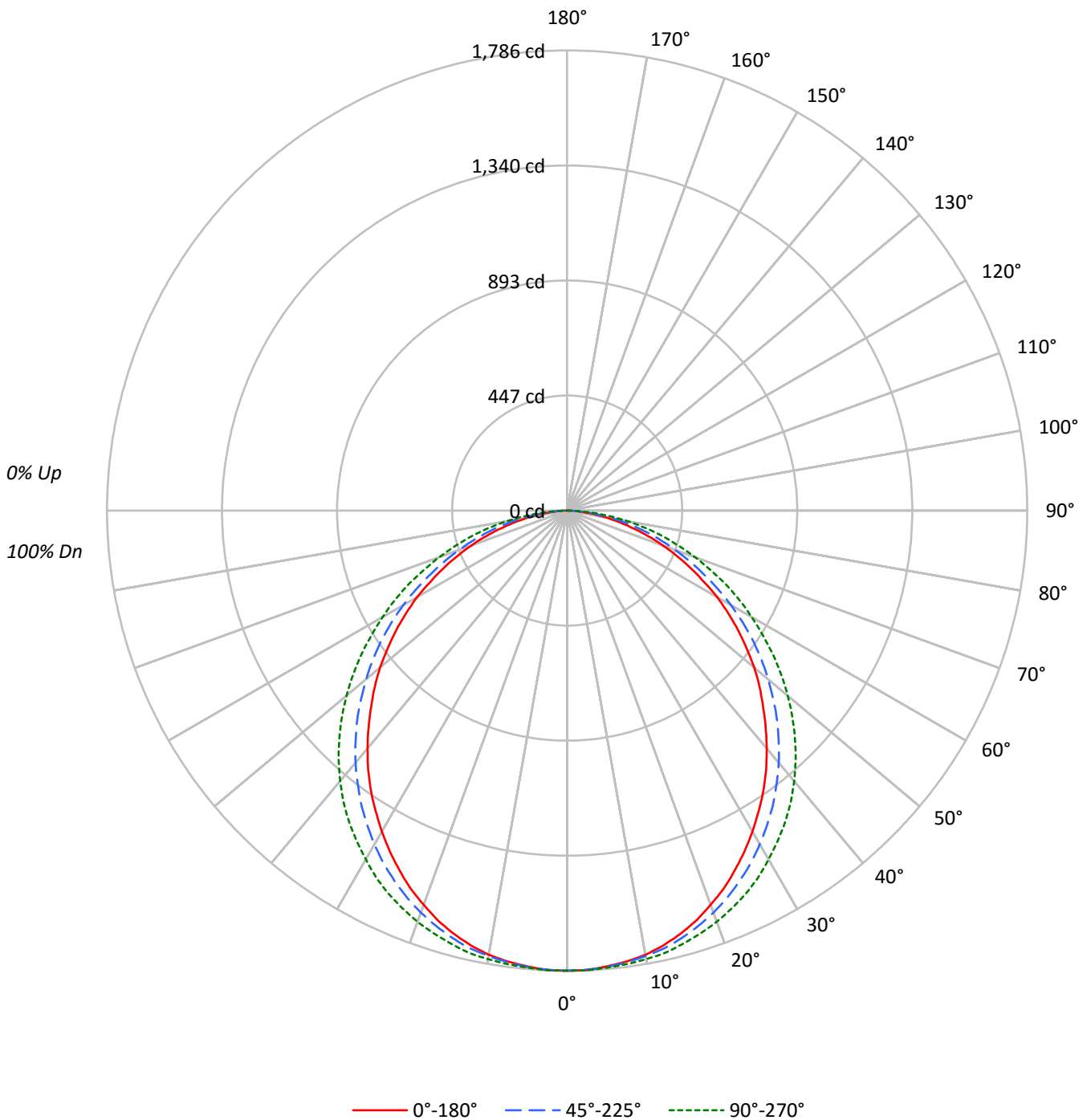
Lumens per Lamp: N/A
Luminaire Lumens: 4958.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.1
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: P385086
CATALOG NUMBER: 14ID-50-L830-CNC

Luminous Intensity Polar Plot





TEST NUMBER: P385086

CATALOG NUMBER: 14ID-50-L830-CNC

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	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4805	4805	4805
5°	4797	4803	4810
10°	4784	4797	4832
15°	4738	4787	4849
20°	4662	4755	4863
25°	4574	4708	4871
30°	4469	4647	4857
35°	4363	4576	4847
40°	4235	4489	4814
45°	4093	4388	4759
50°	3968	4261	4680
55°	3802	4130	4576
60°	3621	3957	4455
65°	3376	3726	4332
70°	3109	3503	4152
75°	2756	3250	3978
80°	2326	2907	3682
85°	1698	2238	2933



TEST NUMBER: P385086

CATALOG NUMBER: 14ID-50-L830-CNC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.4
10°-20°	484.9	9.8
20°-30°	731.4	14.8
30°-40°	873.2	17.6
40°-50°	892.4	18.0
50°-60°	791.3	16.0
60°-70°	589.9	11.9
70°-80°	337.0	6.8
80°-90°	88.9	1.8
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°	1385.4	27.9
0°-40°	2258.5	45.6
0°-60°	3942.2	79.5
0°-90°	4958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1776	1776	1778	1778	1781	169
15°	1701	1706	1718	1733	1741	479
25°	1541	1553	1586	1621	1641	709
35°	1328	1346	1393	1448	1476	830
45°	1075	1098	1153	1216	1250	831
55°	810	825	880	943	975	724
65°	530	543	585	645	680	525
75°	265	278	313	360	383	283
85°	55	58	72	90	95	69
90°	0	0	0	0	0	



TEST NUMBER: P385086

CATALOG NUMBER: 14ID-50-L830-CNC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1785.7	1785.7	1785.7	1785.7	1785.7
2.5°	1785.7	1783.2	1783.2	1783.2	1785.7
5°	1775.7	1775.7	1778.2	1778.2	1780.7
7.5°	1765.7	1765.7	1768.2	1770.7	1775.7
10°	1750.7	1750.7	1755.7	1763.2	1768.2
12.5°	1728.2	1730.7	1740.7	1750.7	1758.2
15°	1700.7	1705.7	1718.2	1733.2	1740.7
17.5°	1668.2	1673.2	1690.7	1710.7	1720.7
20°	1628.1	1638.1	1660.6	1685.7	1698.2
22.5°	1588.1	1598.1	1625.6	1655.6	1670.7
25°	1540.6	1553.1	1585.6	1620.6	1640.6
27.5°	1490.6	1505.6	1543.1	1583.1	1605.6
30°	1438.1	1455.6	1495.6	1540.6	1563.1
32.5°	1383.0	1400.5	1445.6	1495.6	1520.6
35°	1328.0	1345.5	1393.0	1448.1	1475.6
37.5°	1268.0	1285.5	1335.5	1395.5	1425.6
40°	1205.5	1225.5	1278.0	1338.0	1370.5
42.5°	1140.4	1163.0	1215.5	1280.5	1313.0
45°	1075.4	1097.9	1153.0	1215.5	1250.5
47.5°	1012.9	1030.4	1085.4	1150.4	1185.5
50°	947.9	962.9	1017.9	1082.9	1117.9
52.5°	877.8	897.9	950.4	1015.4	1047.9
55°	810.3	825.3	880.3	942.9	975.4
57.5°	740.3	755.3	807.8	870.3	900.4
60°	672.8	687.8	735.3	797.8	827.8
62.5°	597.7	612.7	660.3	725.3	755.3
65°	530.2	542.7	585.2	645.3	680.3
67.5°	462.7	475.2	515.2	572.7	600.2
70°	395.2	405.2	445.2	497.7	527.7
72.5°	330.1	340.1	380.1	427.7	452.7
75°	265.1	277.6	312.6	360.1	382.6
77.5°	205.1	217.6	247.6	290.1	310.1
80°	150.1	160.1	187.6	220.1	237.6
82.5°	100.0	107.5	127.5	155.1	167.6
85°	55.0	57.5	72.5	90.0	95.0
87.5°	22.5	22.5	27.5	30.0	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)