

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: P385082

Luminaire Tested: **14ID-45-L830-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385082
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-45-L830-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

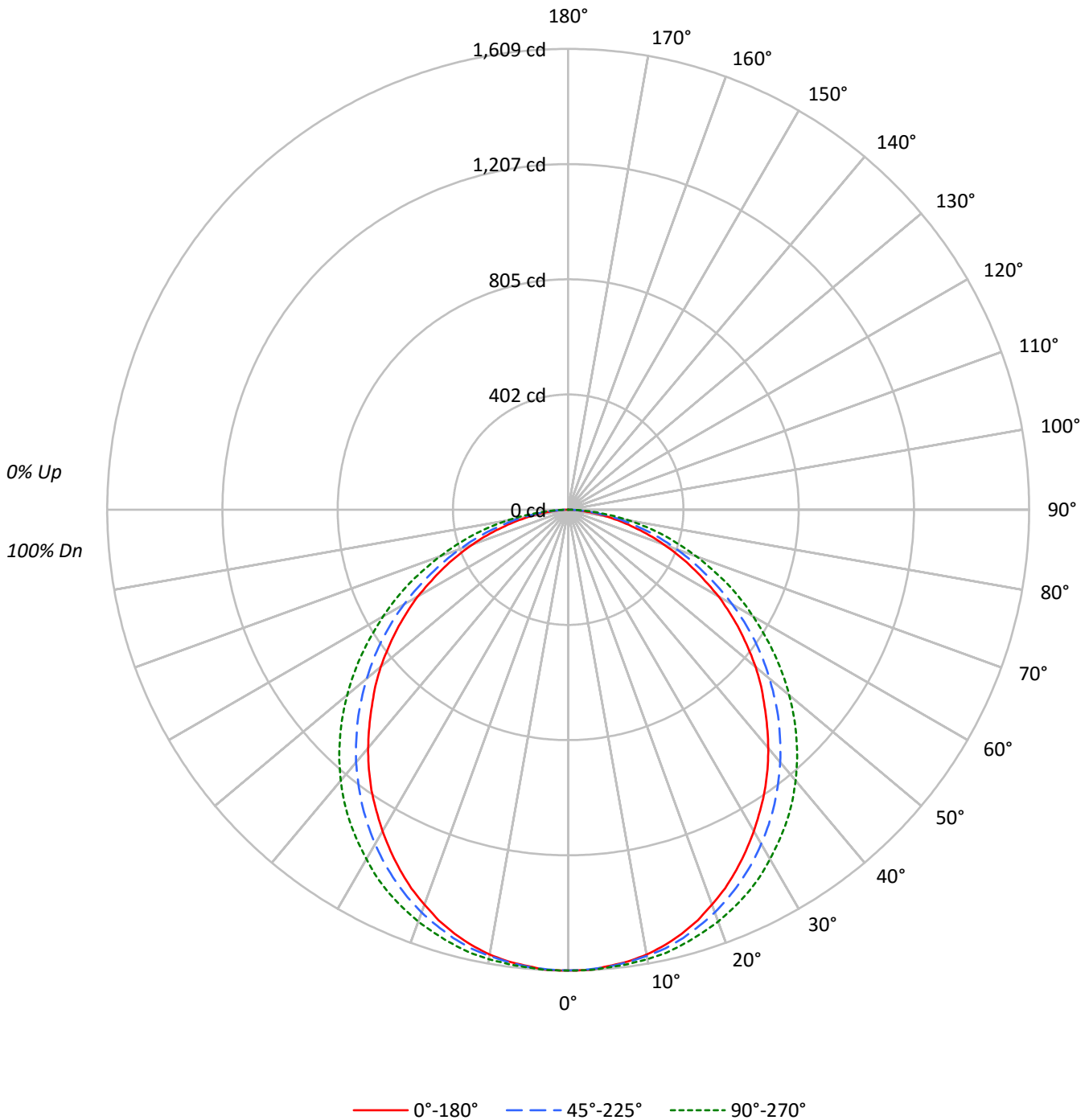
Lumens per Lamp: N/A
Luminaire Lumens: 4467.5 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
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	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°	4330	4330	4330
5°	4322	4328	4334
10°	4311	4323	4354
15°	4269	4313	4370
20°	4201	4285	4382
25°	4122	4242	4389
30°	4026	4187	4377
35°	3931	4123	4368
40°	3816	4045	4338
45°	3688	3954	4288
50°	3576	3840	4217
55°	3426	3722	4123
60°	3263	3566	4014
65°	3042	3358	3903
70°	2802	3156	3741
75°	2484	2929	3585
80°	2095	2619	3318
85°	1531	2019	2643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.4
10°-20°	437.0	9.8
20°-30°	659.0	14.8
30°-40°	786.8	17.6
40°-50°	804.1	18.0
50°-60°	713.0	16.0
60°-70°	531.5	11.9
70°-80°	303.6	6.8
80°-90°	80.1	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°	1248.3	27.9
0°-40°	2035.1	45.6
0°-60°	3552.2	79.5
0°-90°	4467.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4467.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1600	1600	1602	1602	1604	152
15°	1532	1537	1548	1562	1568	432
25°	1388	1400	1429	1460	1478	639
35°	1197	1212	1255	1305	1330	748
45°	969	989	1039	1095	1127	749
55°	730	744	793	850	879	652
65°	478	489	527	581	613	474
75°	239	250	282	324	345	255
85°	50	52	65	81	86	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.0	1609.0	1609.0	1609.0	1609.0
2.5°	1609.0	1606.8	1606.8	1606.8	1609.0
5°	1600.0	1600.0	1602.3	1602.3	1604.5
7.5°	1591.0	1591.0	1593.3	1595.5	1600.0
10°	1577.5	1577.5	1582.0	1588.8	1593.3
12.5°	1557.2	1559.5	1568.5	1577.5	1584.2
15°	1532.4	1536.9	1548.2	1561.7	1568.5
17.5°	1503.1	1507.6	1523.4	1541.4	1550.4
20°	1467.1	1476.1	1496.4	1518.9	1530.2
22.5°	1431.0	1440.0	1464.8	1491.9	1505.4
25°	1388.2	1399.5	1428.8	1460.3	1478.3
27.5°	1343.1	1356.6	1390.4	1426.5	1446.8
30°	1295.8	1311.6	1347.6	1388.2	1408.5
32.5°	1246.2	1262.0	1302.6	1347.6	1370.2
35°	1196.6	1212.4	1255.2	1304.8	1329.6
37.5°	1142.6	1158.3	1203.4	1257.5	1284.5
40°	1086.2	1104.2	1151.6	1205.7	1234.9
42.5°	1027.6	1047.9	1095.2	1153.8	1183.1
45°	969.0	989.3	1038.9	1095.2	1126.8
47.5°	912.7	928.5	978.0	1036.6	1068.2
50°	854.1	867.6	917.2	975.8	1007.3
52.5°	791.0	809.0	856.4	914.9	944.2
55°	730.2	743.7	793.3	849.6	878.9
57.5°	667.1	680.6	727.9	784.2	811.3
60°	606.2	619.7	662.5	718.9	745.9
62.5°	538.6	552.1	594.9	653.5	680.6
65°	477.8	489.0	527.3	581.4	613.0
67.5°	416.9	428.2	464.2	516.1	540.9
70°	356.1	365.1	401.1	448.5	475.5
72.5°	297.5	306.5	342.5	385.4	407.9
75°	238.9	250.1	281.7	324.5	344.8
77.5°	184.8	196.1	223.1	261.4	279.4
80°	135.2	144.2	169.0	198.3	214.1
82.5°	90.1	96.9	114.9	139.7	151.0
85°	49.6	51.8	65.4	81.1	85.6
87.5°	20.3	20.3	24.8	27.0	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)