

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: P559647

Luminaire Tested: **DL2-BB-M-075U-125D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559647
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-075U-125D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

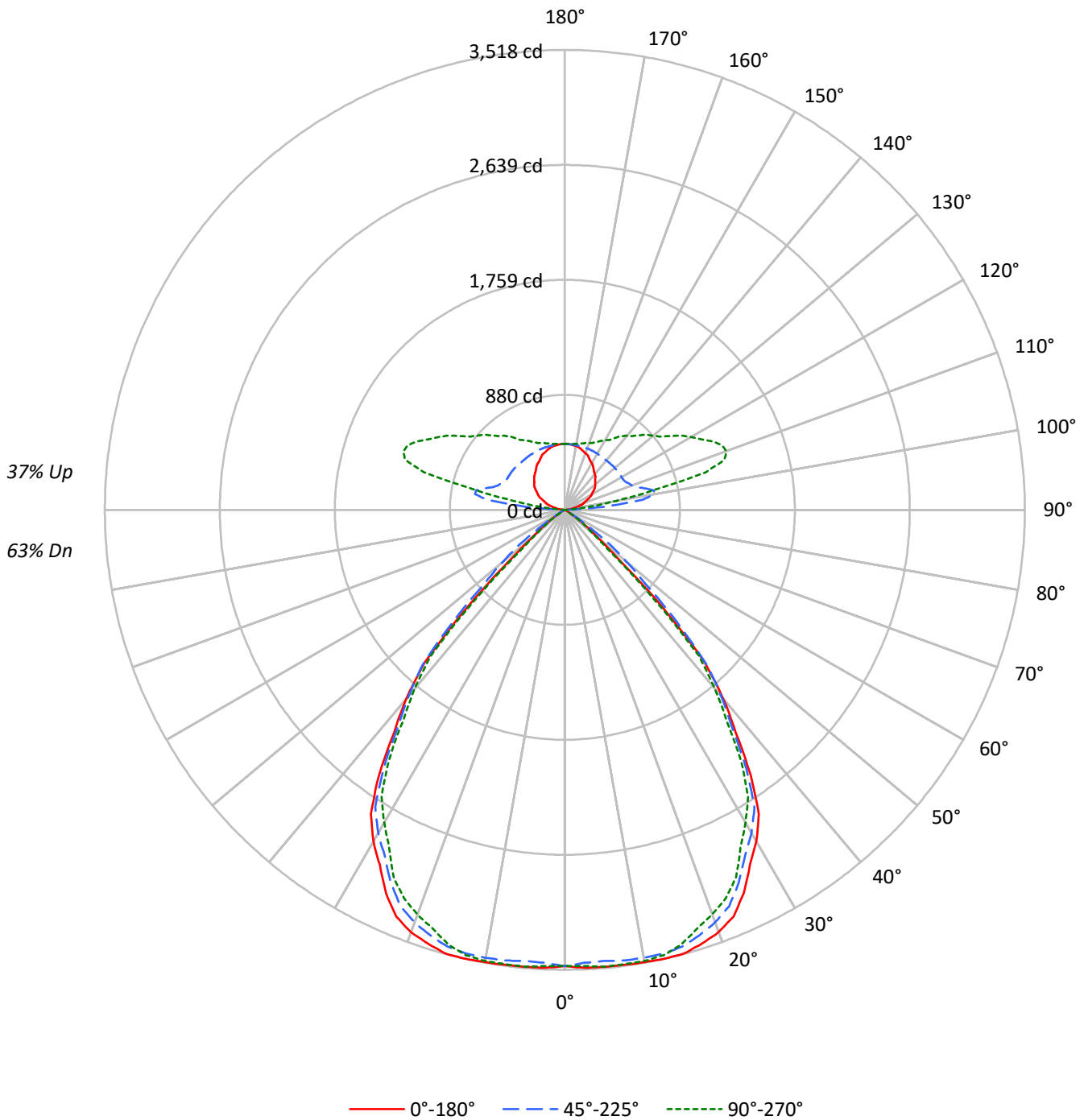
Lumens per Lamp: N/A
Luminaire Lumens: 8393.1 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.1
Input Voltage (V): 120
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: 24 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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	103	100	97	94	97	94	91	89	83	81	79	73	72	70	64	63	62	58
2	96	90	85	81	90	85	81	77	76	73	70	67	65	63	59	58	56	53
3	89	82	76	71	84	77	72	68	69	65	62	62	59	57	55	53	51	48
4	83	74	68	63	78	71	65	60	64	59	56	57	54	51	51	49	47	44
5	78	68	61	56	73	64	58	54	58	54	50	53	49	46	47	45	42	40
6	72	62	55	50	68	59	53	48	54	49	45	49	45	42	44	41	39	36
7	68	57	50	45	64	54	48	44	50	45	41	45	41	38	41	38	35	33
8	63	52	45	41	60	50	44	40	46	41	37	42	38	35	38	35	33	31
9	59	48	42	37	56	46	40	36	43	38	34	39	35	32	36	32	30	28
10	56	45	38	34	53	43	37	33	40	35	31	36	32	29	33	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56354	56354	56354
5°	56859	56159	56859
10°	57586	57033	57464
15°	58746	57849	57531
20°	59082	57706	56599
25°	57653	56055	55210
30°	54592	53216	51486
35°	48821	47678	46349
40°	39759	39182	37582
45°	24270	27496	21863
50°	7920	15388	6965
55°	2702	5433	2790
60°	203	1566	68
65°	42	80	0
70°	0	52	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	4.0
10°-20°	980.8	11.7
20°-30°	1449.5	17.3
30°-40°	1489.7	17.7
40°-50°	860.5	10.3
50°-60°	149.1	1.8
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	0.6	0.0
90°-100°	190.8	2.3
100°-110°	632.4	7.5
110°-120°	627.7	7.5
120°-130°	511.3	6.1
130°-140°	415.5	5.0
140°-150°	322.7	3.8
150°-160°	232.5	2.8
160°-170°	142.4	1.7
170°-180°	48.1	0.6
0°-30°	2764.3	32.9
0°-40°	4254.0	50.7
0°-60°	5263.5	62.7
0°-90°	5269.8	62.8
90°-120°	1450.9	17.3
90°-150°	2700.4	32.2
90°-180°	3123.0	37.2
0°-180°	8393.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3490	3490	3490	3490	3490	
5°	3508	3498	3465	3515	3508	335
15°	3514	3540	3461	3466	3442	990
25°	3236	3265	3146	3110	3099	1480
35°	2477	2478	2419	2381	2352	1524
45°	1063	1206	1204	1140	958	812
55°	96	111	193	109	99	108
65°	1	1	2	1	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	4	4	1
95°	27	80	346	123	82	31
105°	111	158	633	1194	1116	117
115°	197	236	510	1061	1241	195
125°	276	306	500	834	983	245
135°	330	364	496	715	807	255
145°	383	412	495	616	674	240
155°	438	453	498	550	570	202
165°	480	486	500	520	525	135
175°	502	502	503	506	506	48
180°	504	504	504	504	504	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3490.3	3490.3	3490.3	3490.3	3490.3
2.5°	3506.3	3496.4	3468.3	3500.2	3492.8
5°	3508.2	3497.9	3465.0	3515.4	3508.2
7.5°	3511.6	3505.2	3477.0	3516.6	3505.0
10°	3512.4	3513.5	3478.7	3513.3	3505.0
12.5°	3517.5	3527.6	3475.3	3503.0	3489.0
15°	3514.5	3540.3	3460.8	3466.5	3441.8
17.5°	3479.1	3516.2	3414.1	3389.2	3358.3
20°	3438.6	3475.7	3358.5	3325.1	3294.1
22.5°	3366.9	3407.3	3281.7	3245.0	3216.5
25°	3236.2	3265.0	3146.5	3110.4	3099.1
27.5°	3064.1	3074.4	2982.7	2935.0	2908.4
30°	2928.2	2926.2	2854.4	2799.8	2761.6
32.5°	2760.4	2770.7	2698.4	2647.1	2608.1
35°	2476.9	2478.0	2418.9	2381.4	2351.5
37.5°	2146.3	2141.1	2100.3	2049.7	2032.8
40°	1886.4	1893.7	1859.0	1801.7	1783.1
42.5°	1585.3	1632.9	1608.5	1540.9	1518.2
45°	1062.9	1206.2	1204.2	1139.9	957.5
47.5°	543.9	723.3	831.1	651.0	436.8
50°	315.3	428.7	612.6	338.2	277.3
52.5°	199.7	253.7	435.5	219.8	184.5
55°	96.0	111.4	193.0	109.4	99.1
57.5°	35.0	52.1	85.6	53.2	37.5
60°	6.3	21.8	48.5	14.5	2.1
62.5°	2.1	6.0	28.3	3.7	1.3
65°	1.1	1.1	2.1	1.0	0.0
67.5°	0.0	1.0	1.1	0.0	0.0
70°	0.0	1.0	1.1	0.0	0.0
72.5°	0.0	0.2	0.2	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.6	0.8	0.8
90°	0.0	1.0	3.1	4.2	4.2
92.5°	8.4	32.3	95.0	30.8	25.9
95°	27.2	80.3	345.7	123.4	82.5
97.5°	49.9	105.5	603.5	352.0	222.5
100°	65.8	118.9	698.7	600.1	397.9
102.5°	83.3	134.8	692.9	917.1	692.9
105°	110.7	157.7	632.9	1194.1	1116.5
107.5°	138.7	180.6	575.5	1222.3	1281.3
110°	154.6	196.4	546.2	1194.4	1313.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.3	212.3	528.7	1145.0	1297.2
115°	197.4	236.2	509.7	1061.1	1240.8
117.5°	223.3	257.8	502.8	980.8	1169.4
120°	239.2	272.9	500.3	930.6	1113.4
122.5°	253.4	286.3	500.3	889.3	1058.2
125°	275.7	306.4	500.3	833.7	982.8
127.5°	294.1	324.1	499.0	791.7	919.1
130°	305.0	336.6	498.2	767.1	881.5
132.5°	315.0	347.5	497.4	746.8	849.8
135°	330.0	363.7	496.1	715.4	807.4
137.5°	346.3	378.8	494.9	685.1	766.2
140°	357.2	388.9	494.0	664.9	739.5
142.5°	367.2	398.1	494.9	644.7	711.1
145°	383.3	411.9	495.1	615.5	673.7
147.5°	400.6	424.5	495.3	590.7	634.0
150°	411.5	433.0	496.1	576.3	613.1
152.5°	421.5	442.2	496.9	564.5	593.9
155°	437.6	452.9	498.2	549.8	570.3
157.5°	453.3	465.1	499.5	539.5	554.0
160°	461.6	471.9	500.3	531.9	543.1
162.5°	470.0	477.8	500.3	526.8	535.6
165°	480.4	485.5	500.3	520.2	525.4
167.5°	490.1	492.7	501.3	514.3	517.0
170°	495.1	496.1	501.3	511.8	512.8
172.5°	498.4	499.4	502.2	509.3	509.5
175°	502.4	502.4	503.4	506.5	505.5
177.5°	504.5	504.5	503.6	505.3	503.6
180°	504.5	504.5	504.5	504.5	504.5

(END OF REPORT)