

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: P220225

Luminaire Tested: **R3-WD-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-1L35-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

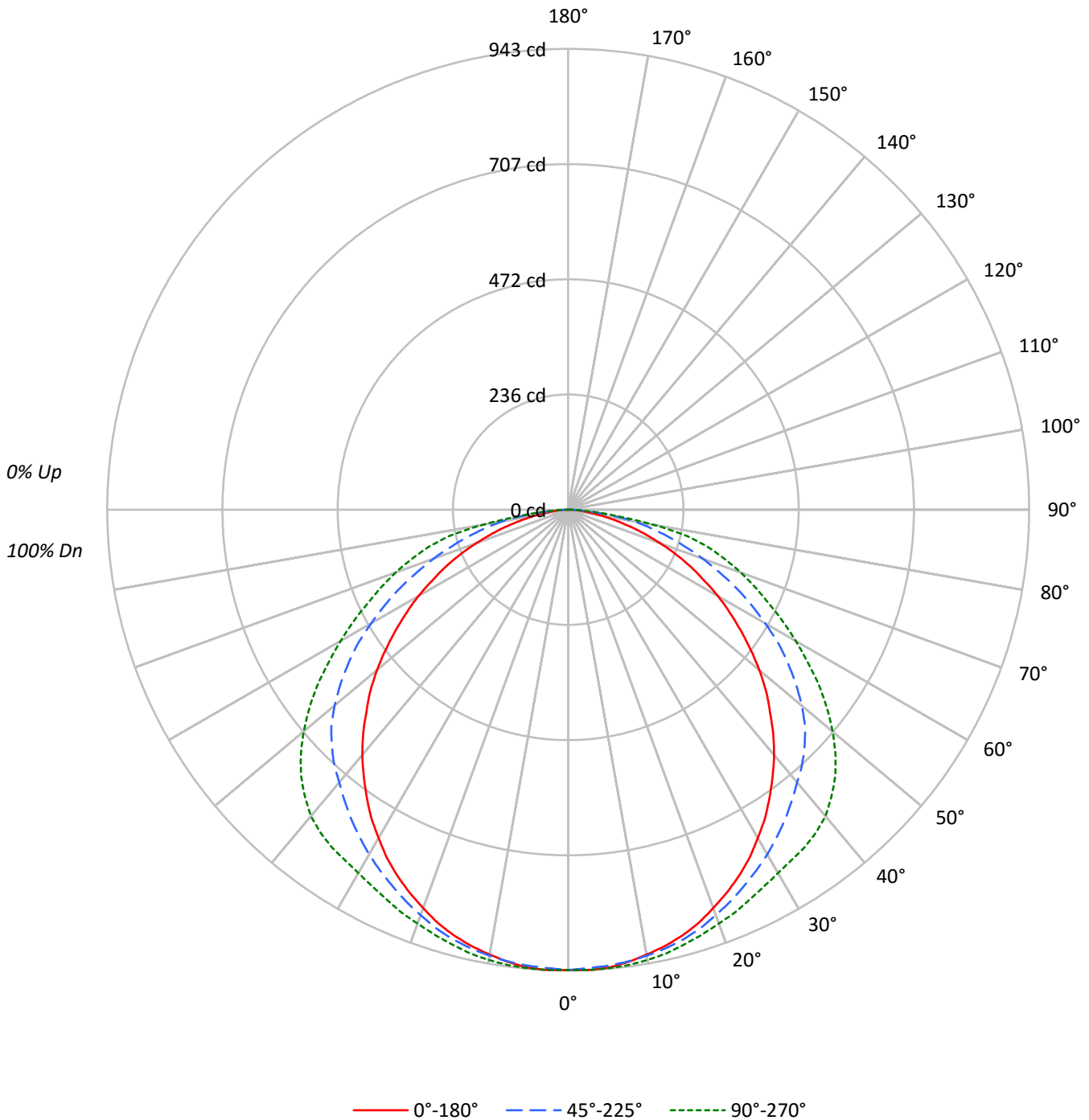
Lumens per Lamp: N/A
Luminaire Lumens: 2881.4 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.9
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: 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	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1267	1267	1267
5°	1271	1265	1272
10°	1263	1266	1279
15°	1257	1268	1282
20°	1242	1264	1290
25°	1227	1262	1306
30°	1205	1265	1333
35°	1180	1271	1385
40°	1151	1280	1438
45°	1111	1301	1470
50°	1068	1305	1478
55°	1010	1288	1470
60°	953	1252	1447
65°	881	1209	1439
70°	783	1152	1478
75°	663	1093	1539
80°	522	1060	1376
85°	378	709	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.1
10°-20°	257.3	8.9
20°-30°	393.4	13.7
30°-40°	486.5	16.9
40°-50°	523.9	18.2
50°-60°	480.9	16.7
60°-70°	369.2	12.8
70°-80°	224.7	7.8
80°-90°	56.1	1.9
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°	740.1	25.7
0°-40°	1226.6	42.6
0°-60°	2231.4	77.4
0°-90°	2881.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	941	939	937	941	942	89
15°	902	904	910	920	920	254
25°	827	836	850	874	880	381
35°	718	732	774	822	843	449
45°	584	608	684	750	772	451
55°	431	465	549	608	627	386
65°	277	313	380	434	452	273
75°	128	160	210	272	296	137
85°	24	39	46	48	51	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	941.9	941.9	941.9	941.9	941.9
2.5°	943.0	941.9	938.9	941.9	943.0
5°	940.9	938.9	936.8	940.9	941.9
7.5°	933.8	933.8	932.8	938.9	939.9
10°	924.6	926.6	926.6	934.8	935.8
12.5°	914.4	916.4	919.5	928.7	929.7
15°	902.1	904.2	910.3	919.5	920.5
17.5°	886.8	890.9	898.1	908.3	911.3
20°	867.4	874.6	882.8	898.1	901.1
22.5°	848.1	856.2	867.4	884.8	891.9
25°	826.6	835.8	850.1	873.6	879.7
27.5°	803.2	812.3	832.7	859.3	868.5
30°	775.6	785.8	814.4	845.0	858.3
32.5°	749.1	759.3	794.0	832.7	850.1
35°	718.4	731.7	773.6	822.5	843.0
37.5°	686.8	701.1	751.1	812.3	832.7
40°	655.2	671.5	728.7	798.0	818.5
42.5°	620.5	639.9	708.2	775.6	797.0
45°	583.7	608.2	683.8	750.1	772.5
47.5°	549.0	574.6	657.2	722.5	741.9
50°	510.3	539.9	623.5	687.8	706.2
52.5°	470.5	505.2	587.8	652.1	667.4
55°	430.7	465.4	549.0	608.2	626.6
57.5°	391.9	431.7	510.3	566.4	580.7
60°	354.1	391.9	465.4	520.5	537.8
62.5°	313.3	354.1	422.5	477.6	495.0
65°	276.6	313.3	379.6	433.7	452.1
67.5°	238.8	273.5	334.7	389.8	413.3
70°	199.0	233.7	292.9	351.1	375.6
72.5°	163.3	194.9	250.0	312.3	335.8
75°	127.6	160.2	210.2	271.5	296.0
77.5°	95.9	125.5	172.5	230.6	250.0
80°	67.4	94.9	136.8	172.5	177.6
82.5°	43.9	66.3	89.8	100.0	101.0
85°	24.5	38.8	45.9	48.0	51.0
87.5°	10.2	13.3	17.3	18.4	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)