

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P997757

Luminaire Tested: SA2XXRDP-B675DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-B675DB30-4F0-XX-W2A-F
Description: Define 2 Regressed Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

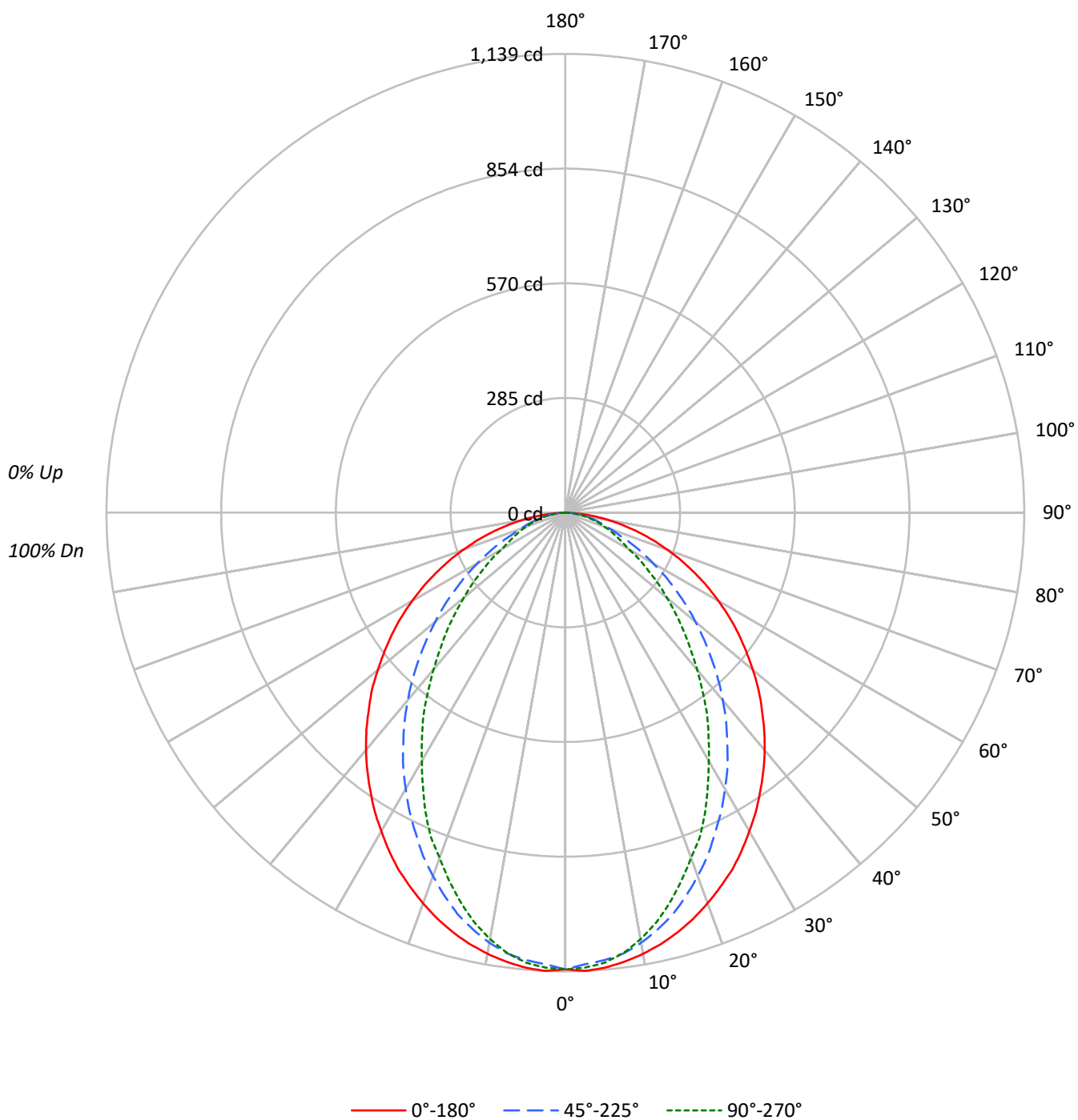
Lumens per Lamp: N/A
Luminaire Lumens: 2332.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.9
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	87	82	98	92	86	81	88	83	79		85	81	78		82
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		74
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		55
7	68	56	47	42	67	55	47	42	53	46	41		52	46	41		51
8	64	51	43	38	62	51	43	37	49	42	37		48	42	37		47
9	60	47	39	34	59	47	39	34	46	39	34		44	38	34		44
10	56	44	36	31	55	43	36	31	42	36	31		41	35	31		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17949	17949	17949
5°	18017	17723	17822
10°	17879	17433	17285
15°	17674	16917	16429
20°	17389	16180	15366
25°	17097	15342	14338
30°	16693	14480	13016
35°	16300	13544	11857
40°	15903	12574	10518
45°	15437	11486	9304
50°	14960	10385	8112
55°	14472	9204	6966
60°	13904	7959	5784
65°	13259	6686	5266
70°	12491	5508	4846
75°	11547	5021	4520
80°	10200	4494	4120
85°	8009	3542	3542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	4.6
10°-20°	291.7	12.5
20°-30°	409.6	17.6
30°-40°	446.5	19.1
40°-50°	410.3	17.6
50°-60°	322.3	13.8
60°-70°	209.8	9.0
70°-80°	108.0	4.6
80°-90°	27.6	1.2
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°	807.6	34.6
0°-40°	1254.0	53.8
0°-60°	1986.6	85.2
0°-90°	2332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1134	1129	1115	1125	1122	108
15°	1078	1067	1032	1013	1002	304
25°	979	946	878	836	821	450
35°	844	791	701	636	614	528
45°	690	621	513	440	416	533
55°	524	444	334	272	252	469
65°	354	271	178	144	141	351
75°	189	117	82	75	74	200
85°	44	23	20	20	20	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1139.0	1133.9	1122.6	1132.9	1130.8
5°	1133.9	1128.8	1115.4	1124.7	1121.6
7.5°	1124.7	1118.5	1104.1	1108.2	1103.1
10°	1112.3	1105.2	1084.6	1081.6	1075.4
12.5°	1097.0	1087.7	1060.0	1053.9	1042.6
15°	1078.5	1067.2	1032.3	1012.8	1002.5
17.5°	1056.9	1040.5	997.4	974.8	958.4
20°	1032.3	1011.8	960.5	934.8	912.2
22.5°	1005.6	982.0	922.5	887.6	872.2
25°	978.9	946.1	878.4	836.3	820.9
27.5°	947.1	912.2	837.3	789.1	765.5
30°	913.3	874.3	792.2	739.9	712.1
32.5°	880.4	833.2	749.1	687.5	661.9
35°	843.5	791.2	700.9	636.2	613.6
37.5°	807.6	751.1	655.7	584.9	559.3
40°	769.6	708.0	608.5	535.6	509.0
42.5°	730.6	664.9	561.3	485.4	459.7
45°	689.6	620.8	513.1	440.2	415.6
47.5°	650.6	577.7	466.9	394.0	371.5
50°	607.5	534.6	421.7	350.9	329.4
52.5°	565.4	488.4	378.6	310.9	291.4
55°	524.4	444.3	333.5	271.9	252.4
57.5°	482.3	400.2	293.5	236.0	219.6
60°	439.2	357.1	251.4	199.1	182.7
62.5°	397.1	315.0	215.5	166.2	158.0
65°	354.0	270.9	178.5	143.7	140.6
67.5°	313.0	229.9	143.7	126.2	123.1
70°	269.9	189.8	119.0	108.8	104.7
72.5°	228.8	152.9	99.5	91.3	89.3
75°	188.8	117.0	82.1	74.9	73.9
77.5°	148.8	83.1	64.6	60.5	58.5
80°	111.9	59.5	49.3	45.2	45.2
82.5°	78.0	40.0	33.9	31.8	31.8
85°	44.1	22.6	19.5	19.5	19.5
87.5°	16.4	8.2	8.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	21.27	22.79	21.63	23.10	23.42	17.23	18.75	17.59	19.06	19.38
	3H	23.03	24.40	23.41	24.73	25.09	18.49	19.86	18.87	20.19	20.55
	4H	23.70	24.98	24.10	25.33	25.71	18.99	20.27	19.39	20.62	21.00
	6H	24.19	25.37	24.60	25.74	26.13	19.38	20.56	19.79	20.92	21.32
	8H	24.35	25.48	24.78	25.87	26.27	19.50	20.63	19.93	21.02	21.42
	12H	24.46	25.53	24.89	25.92	26.35	19.58	20.66	20.01	21.04	21.47
4H	2H	21.37	22.65	21.77	23.00	23.38	17.92	19.20	18.32	19.55	19.93
	3H	23.30	24.37	23.71	24.77	25.17	19.37	20.43	19.78	20.83	21.23
	4H	24.05	25.01	24.49	25.43	25.86	19.97	20.92	20.40	21.34	21.78
	6H	24.65	25.48	25.10	25.92	26.38	20.45	21.29	20.91	21.73	22.19
	8H	24.86	25.64	25.32	26.08	26.55	20.62	21.39	21.08	21.84	22.30
	12H	25.01	25.71	25.50	26.19	26.66	20.73	21.43	21.22	21.91	22.38
8H	4H	24.08	24.86	24.54	25.30	25.77	20.32	21.10	20.78	21.54	22.01
	6H	24.72	25.36	25.21	25.85	26.33	20.91	21.55	21.40	22.04	22.52
	8H	24.97	25.54	25.48	26.05	26.54	21.13	21.70	21.64	22.21	22.70
	12H	25.17	25.68	25.68	26.17	26.74	21.31	21.82	21.82	22.31	22.87
12H	4H	24.06	24.76	24.54	25.24	25.71	20.36	21.06	20.84	21.54	22.01
	6H	24.70	25.27	25.21	25.78	26.27	20.97	21.55	21.48	22.06	22.54
	8H	24.98	25.49	25.49	25.98	26.55	21.24	21.75	21.75	22.24	22.81