

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: P997761

Luminaire Tested: SA2XXRDP-B675DB40-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997761
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-B675DB40-4F0-XX-W2A-F
Description: Define 2 Regressed Direct Recessed with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

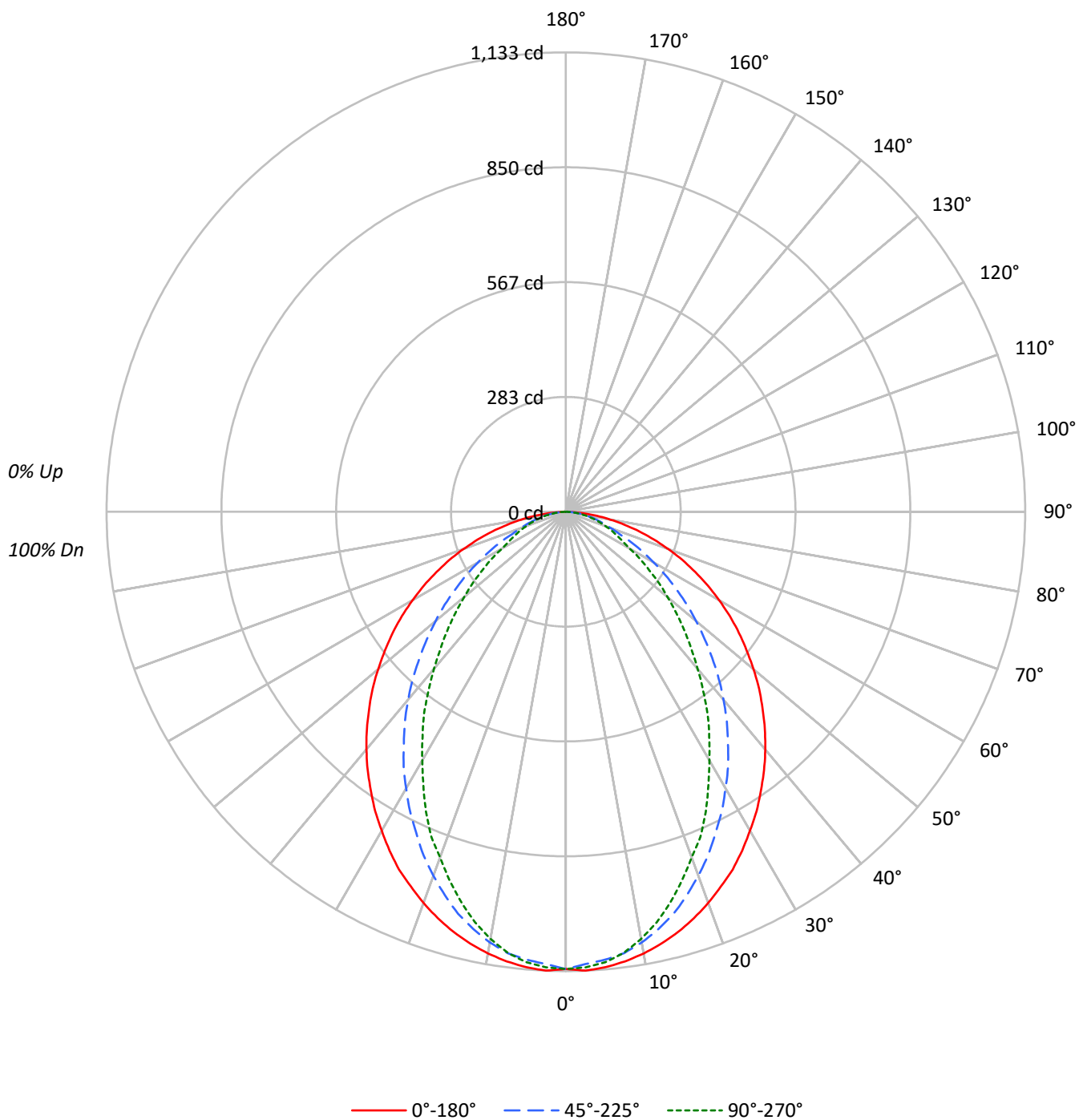
Lumens per Lamp: N/A
Luminaire Lumens: 2319.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43		
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17849	17849	17849
5°	17917	17625	17722
10°	17779	17337	17189
15°	17576	16824	16339
20°	17293	16089	15282
25°	17003	15256	14257
30°	16600	14399	12945
35°	16209	13469	11791
40°	15814	12504	10458
45°	15350	11421	9252
50°	14877	10328	8067
55°	14389	9151	6927
60°	13825	7915	5749
65°	13184	6652	5236
70°	12422	5480	4818
75°	11486	4991	4495
80°	10137	4467	4093
85°	7973	3523	3523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15350 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	4.6
10°-20°	290.1	12.5
20°-30°	407.3	17.6
30°-40°	444.0	19.1
40°-50°	408.1	17.6
50°-60°	320.5	13.8
60°-70°	208.6	9.0
70°-80°	107.4	4.6
80°-90°	27.4	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°	803.1	34.6
0°-40°	1247.1	53.8
0°-60°	1975.6	85.2
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1128	1122	1109	1118	1115	107
15°	1072	1061	1027	1007	997	302
25°	974	941	874	832	816	448
35°	839	787	697	633	610	525
45°	686	617	510	438	413	530
55°	521	442	332	270	251	466
65°	352	269	178	143	140	349
75°	188	116	82	74	74	199
85°	44	22	19	19	19	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.6	1127.6	1127.6	1127.6	1127.6
2.5°	1132.7	1127.6	1116.3	1126.6	1124.5
5°	1127.6	1122.5	1109.2	1118.4	1115.3
7.5°	1118.4	1112.3	1098.0	1102.1	1097.0
10°	1106.1	1099.0	1078.6	1075.5	1069.4
12.5°	1090.8	1081.7	1054.1	1048.0	1036.8
15°	1072.5	1061.2	1026.6	1007.2	997.0
17.5°	1051.0	1034.7	991.9	969.4	953.1
20°	1026.6	1006.1	955.1	929.6	907.2
22.5°	1000.0	976.6	917.4	882.7	867.4
25°	973.5	940.8	873.5	831.6	816.3
27.5°	941.9	907.2	832.7	784.7	761.2
30°	908.2	869.4	787.8	735.7	708.2
32.5°	875.5	828.6	744.9	683.7	658.2
35°	838.8	786.8	697.0	632.7	610.2
37.5°	803.1	747.0	652.1	581.6	556.1
40°	765.3	704.1	605.1	532.7	506.1
42.5°	726.5	661.2	558.2	482.7	457.2
45°	685.7	617.4	510.2	437.8	413.3
47.5°	647.0	574.5	464.3	391.8	369.4
50°	604.1	531.6	419.4	349.0	327.6
52.5°	562.3	485.7	376.5	309.2	289.8
55°	521.4	441.8	331.6	270.4	251.0
57.5°	479.6	398.0	291.8	234.7	218.4
60°	436.7	355.1	250.0	198.0	181.6
62.5°	394.9	313.3	214.3	165.3	157.1
65°	352.0	269.4	177.6	142.9	139.8
67.5°	311.2	228.6	142.9	125.5	122.5
70°	268.4	188.8	118.4	108.2	104.1
72.5°	227.6	152.0	99.0	90.8	88.8
75°	187.8	116.3	81.6	74.5	73.5
77.5°	148.0	82.7	64.3	60.2	58.2
80°	111.2	59.2	49.0	44.9	44.9
82.5°	77.6	39.8	33.7	31.6	31.6
85°	43.9	22.4	19.4	19.4	19.4
87.5°	16.3	8.2	8.2	7.1	7.1
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	21.25	22.77	21.61	23.08	23.40	17.21	18.73	17.57	19.04	19.36
	3H	23.01	24.38	23.39	24.71	25.07	18.47	19.84	18.85	20.17	20.53
	4H	23.68	24.96	24.08	25.31	25.69	18.98	20.26	19.38	20.60	20.98
	6H	24.17	25.35	24.58	25.72	26.11	19.36	20.54	19.77	20.91	21.30
	8H	24.33	25.46	24.76	25.85	26.25	19.48	20.61	19.91	21.00	21.40
	12H	24.44	25.52	24.87	25.90	26.33	19.56	20.64	19.99	21.02	21.45
4H	2H	21.35	22.63	21.75	22.98	23.36	17.90	19.18	18.30	19.53	19.91
	3H	23.29	24.35	23.70	24.75	25.15	19.35	20.41	19.76	20.81	21.21
	4H	24.03	24.99	24.47	25.41	25.85	19.95	20.90	20.38	21.32	21.76
	6H	24.63	25.46	25.08	25.90	26.36	20.44	21.27	20.89	21.71	22.17
	8H	24.84	25.62	25.30	26.06	26.53	20.60	21.37	21.06	21.82	22.29
	12H	25.00	25.69	25.48	26.17	26.64	20.71	21.41	21.20	21.89	22.36
8H	4H	24.06	24.84	24.52	25.28	25.75	20.30	21.08	20.76	21.52	21.99
	6H	24.70	25.34	25.19	25.83	26.31	20.89	21.53	21.38	22.02	22.50
	8H	24.95	25.52	25.46	26.03	26.52	21.11	21.68	21.62	22.19	22.68
	12H	25.15	25.66	25.66	26.15	26.72	21.29	21.80	21.80	22.29	22.85
12H	4H	24.04	24.74	24.53	25.22	25.69	20.34	21.04	20.83	21.52	21.99
	6H	24.68	25.26	25.19	25.76	26.25	20.95	21.53	21.46	22.04	22.53
	8H	24.96	25.47	25.47	25.96	26.53	21.22	21.73	21.73	22.23	22.79