

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: P1000001

Luminaire Tested: SA2XXRDIP-B675D725UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000001
REPORT IS A COMBINATION OF REPORTS P988558 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D725UB30-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

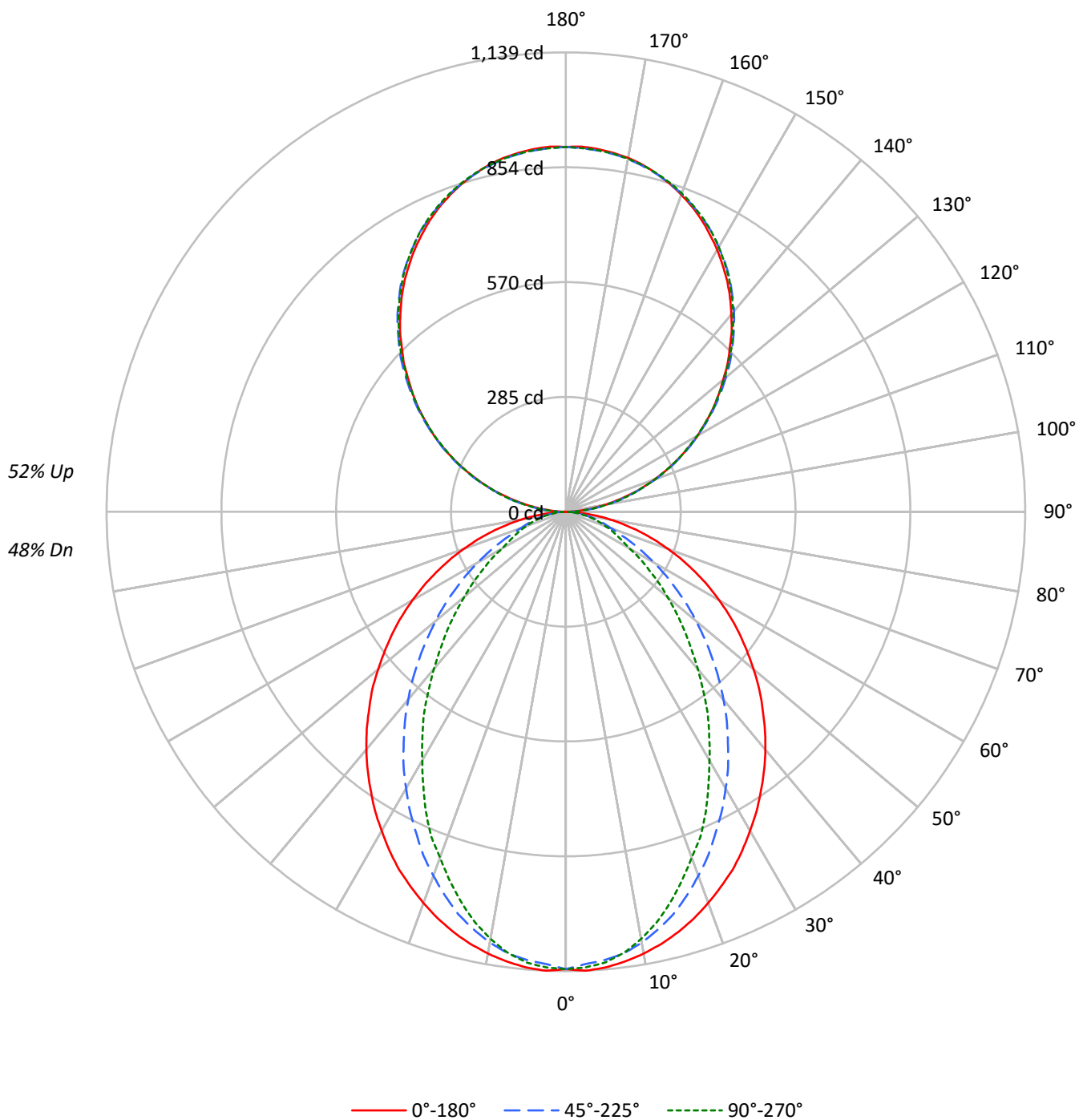
Lumens per Lamp: N/A
Luminaire Lumens: 4864.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	98	94	90	87	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	82	76	71	82	76	71	67	64	61	57	53	51	49	43	42	40
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	37	35
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30
5	69	58	50	44	63	54	47	42	46	41	36	39	35	32	32	29	27
6	64	52	44	39	59	48	41	36	42	36	32	35	31	28	29	26	24
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	43	35	30	51	40	33	29	35	29	25	29	25	22	25	21	19
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	23	20	17
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17949	17949	17949
5°	17978	17076	16950
10°	17800	16195	15661
15°	17557	15156	14192
20°	17232	13974	12656
25°	16900	12761	11251
30°	16456	11581	9716
35°	16019	10390	8398
40°	15576	9219	7042
45°	15061	8012	5858
50°	14527	6847	4769
55°	13973	5684	3785
60°	13327	4545	2865
65°	12584	3464	2329
70°	11689	2513	1852
75°	10562	1918	1414
80°	8934	1299	950
85°	6229	595	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	2.2
10°-20°	291.7	6.0
20°-30°	409.6	8.4
30°-40°	446.5	9.2
40°-50°	410.3	8.4
50°-60°	322.3	6.6
60°-70°	209.8	4.3
70°-80°	108.0	2.2
80°-90°	30.2	0.6
90°-100°	56.0	1.2
100°-110°	177.9	3.7
110°-120°	304.4	6.3
120°-130°	400.4	8.2
130°-140°	449.4	9.2
140°-150°	440.7	9.1
150°-160°	369.7	7.6
160°-170°	245.2	5.0
170°-180°	85.7	1.8
0°-30°	807.6	16.6
0°-40°	1254.0	25.8
0°-60°	1986.6	40.8
0°-90°	2334.5	48.0
90°-120°	538.3	11.1
90°-150°	1828.9	37.6
90°-180°	2529.0	52.0
0°-180°	4864.0	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	51
90°	1	10	27	25	26	5
95°	40	47	49	49	47	44
105°	164	166	168	170	170	173
115°	305	310	308	308	305	302
125°	444	451	449	447	446	397
135°	575	583	585	584	582	444
145°	698	703	708	708	706	436
155°	798	800	802	806	804	367
165°	868	867	867	873	869	245
175°	903	901	899	905	900	86
180°	905	905	905	905	905	

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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°	0.8	9.9	26.7	25.2	26.0
92.5°	16.8	22.9	23.7	24.4	24.4
95°	39.7	47.3	48.9	48.9	47.3
97.5°	66.4	73.3	76.3	76.3	76.3
100°	97.0	103.1	105.4	105.4	104.6
102.5°	129.0	133.6	136.7	137.4	136.7
105°	164.1	166.4	168.0	169.5	169.5
107.5°	199.3	202.3	202.3	203.1	199.3
110°	232.9	237.4	237.4	237.4	235.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.5	274.1	273.3	271.0	269.5
115°	305.4	310.0	308.4	307.7	305.4
117.5°	341.3	347.4	343.6	341.3	339.0
120°	377.2	383.3	377.2	377.2	374.9
122.5°	410.0	417.6	413.8	411.5	410.0
125°	444.3	451.2	448.9	446.6	445.9
127.5°	477.9	486.3	483.3	480.2	477.9
130°	509.2	519.2	517.6	516.1	513.1
132.5°	544.4	552.0	552.8	548.9	546.6
135°	574.9	583.3	584.8	584.1	581.8
137.5°	608.5	615.4	616.9	616.1	613.1
140°	638.3	645.1	649.0	649.0	645.9
142.5°	668.8	675.7	678.0	678.7	675.7
145°	697.8	703.2	707.7	708.5	705.5
147.5°	723.8	730.6	733.7	735.2	732.2
150°	750.5	755.1	758.1	760.4	758.1
152.5°	774.2	778.7	782.6	785.6	782.6
155°	797.8	800.1	802.4	806.2	803.9
157.5°	818.4	820.0	821.5	826.8	823.0
160°	836.8	838.3	839.1	843.6	840.6
162.5°	853.6	853.6	854.3	859.7	855.9
165°	868.1	867.3	867.3	872.7	868.8
167.5°	881.1	878.8	878.8	884.1	880.3
170°	891.0	888.7	887.9	893.3	888.7
172.5°	897.8	895.6	894.8	900.1	895.6
175°	903.2	900.9	899.4	904.7	900.1
177.5°	906.2	904.0	902.4	907.0	902.4
180°	904.7	904.7	904.7	904.7	904.7

(END OF REPORT)