

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: P1028251

Luminaire Tested: S125DIP-B850D1270UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028251
REPORT IS A COMBINATION OF REPORTS P1002508 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB30-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

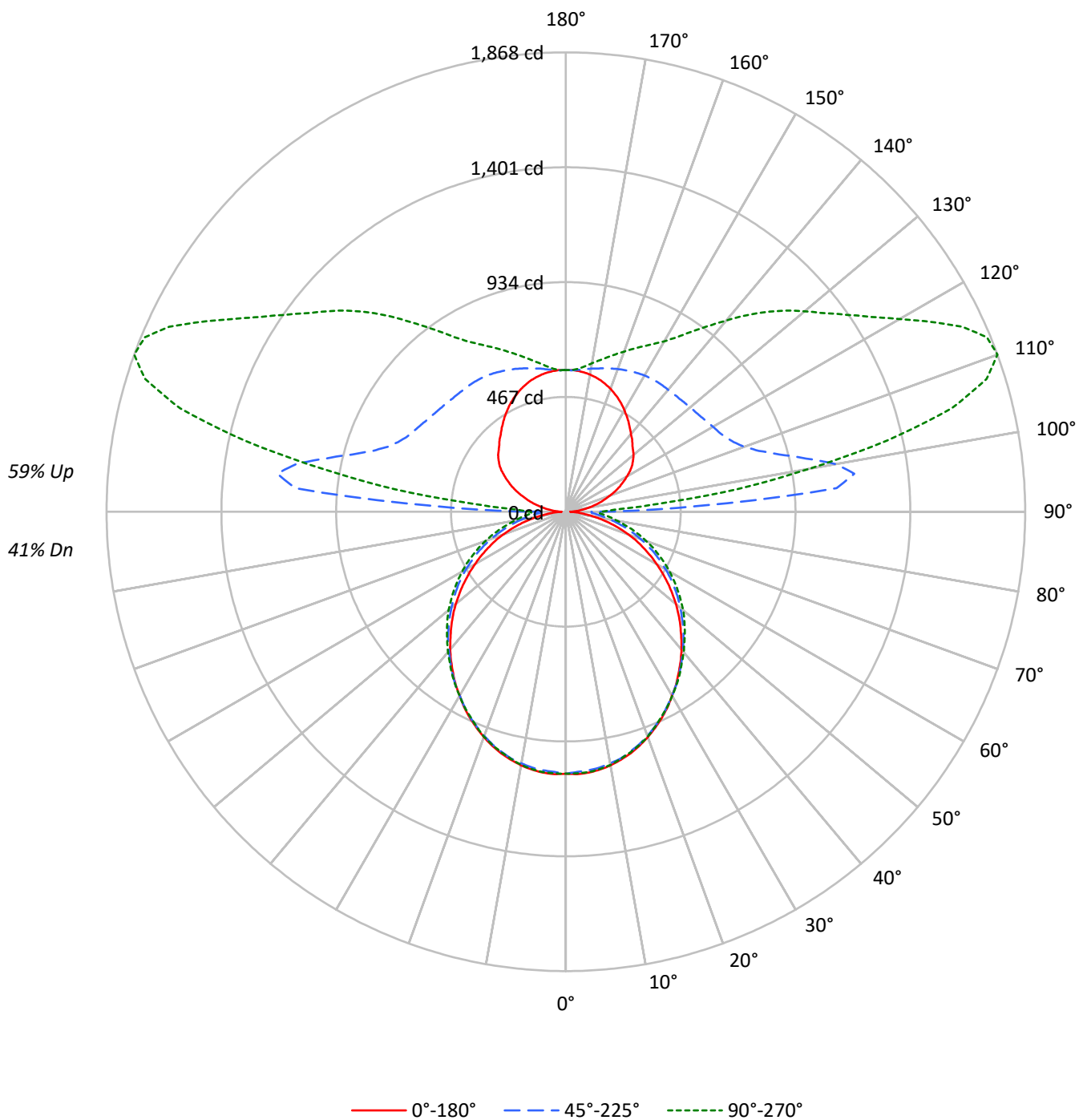
Lumens per Lamp: N/A
Luminaire Lumens: 7635.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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
RCR																	
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47
1	95	91	86	83	86	83	79	76	68	65	63	54	52	50	41	40	39
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	31	29	27
4	72	61	53	47	65	56	49	43	46	41	36	37	33	30	28	25	23
5	66	54	46	40	60	49	42	37	41	35	31	33	29	26	25	22	20
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	22	28	22	19	22	18	16	18	15	13
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.3
10°-20°	286.1	3.7
20°-30°	425.4	5.6
30°-40°	503.8	6.6
40°-50°	520.9	6.8
50°-60°	479.8	6.3
60°-70°	387.9	5.1
70°-80°	259.5	3.4
80°-90°	136.5	1.8
90°-100°	509.2	6.7
100°-110°	956.5	12.5
110°-120°	878.7	11.5
120°-130°	702.0	9.2
130°-140°	556.3	7.3
140°-150°	414.8	5.4
150°-160°	290.7	3.8
160°-170°	171.4	2.2
170°-180°	55.7	0.7
0°-30°	812.3	10.6
0°-40°	1316.1	17.2
0°-60°	2316.7	30.3
0°-90°	3100.6	40.6
90°-120°	2344.5	30.7
90°-150°	4017.5	52.6
90°-180°	4535.0	59.4
0°-180°	7635.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	18	61	104	134	144	14
95°	52	154	1105	566	379	51
105°	141	210	899	1736	1624	148
115°	241	296	716	1516	1780	237
125°	329	384	672	1200	1396	292
135°	383	459	652	993	1149	297
145°	444	508	646	809	894	278
155°	506	545	629	711	742	233
165°	553	568	604	640	650	156
175°	575	575	579	586	584	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	17.9	60.6	104.2	134.0	143.6
92.5°	32.0	140.1	544.7	228.0	197.6
95°	51.9	153.9	1105.0	566.0	379.4
97.5°	71.7	160.1	1183.2	937.0	699.3
100°	92.8	173.9	1115.3	1280.0	1000.7
102.5°	116.1	191.2	1000.8	1569.7	1339.2
105°	140.6	209.6	899.2	1735.8	1624.1
107.5°	164.0	230.2	823.0	1779.8	1793.1
110°	189.6	252.0	771.3	1728.8	1867.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.3	273.9	739.3	1627.8	1853.3
115°	240.8	296.3	716.5	1516.2	1779.6
117.5°	263.0	319.2	701.8	1413.4	1672.1
120°	286.2	342.2	690.8	1327.3	1567.0
122.5°	309.6	363.4	680.8	1256.6	1473.6
125°	329.3	384.0	671.9	1199.5	1396.3
127.5°	344.5	405.0	665.4	1149.0	1326.0
130°	359.6	425.9	660.0	1099.0	1268.5
132.5°	370.2	444.5	655.8	1045.4	1211.0
135°	382.9	459.0	651.7	993.2	1148.7
137.5°	399.2	473.6	649.6	939.6	1083.2
140°	412.0	485.8	647.7	890.2	1015.1
142.5°	428.3	496.4	646.7	847.2	951.8
145°	444.5	508.0	645.6	809.3	894.2
147.5°	461.0	518.4	643.3	777.2	841.4
150°	476.1	527.8	639.8	751.2	799.9
152.5°	492.3	537.0	635.1	731.0	768.7
155°	506.3	544.6	629.3	711.2	742.0
157.5°	519.0	552.1	623.5	692.6	717.6
160°	531.8	557.9	617.7	674.0	693.2
162.5°	542.2	563.8	610.8	657.2	671.1
165°	552.7	567.8	603.8	640.4	650.2
167.5°	559.7	570.1	596.8	624.7	630.5
170°	566.6	573.0	591.0	609.6	613.1
172.5°	571.3	574.2	584.0	597.4	596.8
175°	574.8	574.8	579.4	586.4	584.0
177.5°	577.1	574.8	575.9	579.4	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)