

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: P1028375

Luminaire Tested: S125DIP-B850D850UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028375
REPORT IS A COMBINATION OF REPORTS P1002662 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D850UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

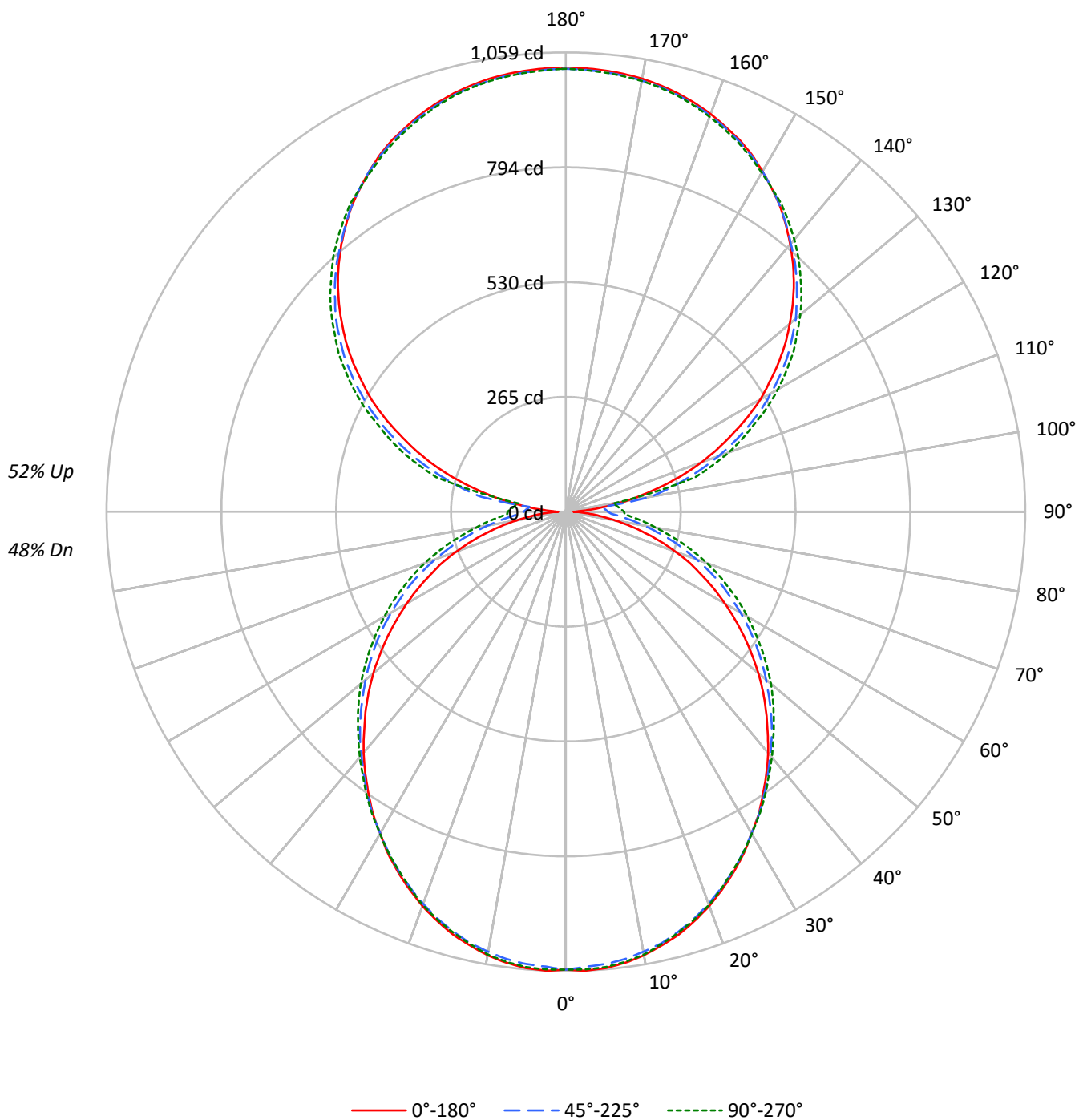
Lumens per Lamp: N/A
Luminaire Lumens: 6410.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	97	92	88	84	89	85	81	78	71	68	66	58	57	55	47	46	44
2	88	80	74	68	80	74	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31
4	73	62	54	47	67	57	50	44	48	43	38	40	36	32	32	29	27
5	67	55	47	41	61	51	43	38	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6765	6765	6765
5°	6776	6623	6639
10°	6725	6488	6470
15°	6644	6331	6261
20°	6533	6141	6054
25°	6402	5939	5803
30°	6244	5719	5575
35°	6096	5516	5365
40°	5945	5302	5152
45°	5774	5117	4963
50°	5611	4916	4791
55°	5415	4723	4591
60°	5200	4505	4386
65°	4976	4274	4156
70°	4719	3966	3916
75°	4313	3660	3623
80°	3781	3289	3298
85°	3253	2993	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.6
10°-20°	283.6	4.4
20°-30°	421.8	6.6
30°-40°	499.5	7.8
40°-50°	516.4	8.1
50°-60°	475.7	7.4
60°-70°	384.6	6.0
70°-80°	257.3	4.0
80°-90°	134.5	2.1
90°-100°	109.6	1.7
100°-110°	285.7	4.5
110°-120°	452.1	7.1
120°-130°	553.8	8.6
130°-140°	582.2	9.1
140°-150°	539.7	8.4
150°-160°	435.1	6.8
160°-170°	281.4	4.4
170°-180°	97.0	1.5
0°-30°	805.4	12.6
0°-40°	1304.9	20.4
0°-60°	2297.1	35.8
0°-90°	3073.5	47.9
90°-120°	847.4	13.2
90°-150°	2523.1	39.4
90°-180°	3337.0	52.1
0°-180°	6410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1047	1055	1054	100
15°	1008	1009	1002	1008	1004	284
25°	916	919	913	917	912	422
35°	793	800	797	800	800	496
45°	653	665	670	677	678	504
55°	502	519	535	547	551	449
65°	346	370	394	410	414	343
75°	190	217	250	271	276	202
85°	57	91	127	150	158	59
90°	17	56	97	125	134	14
95°	57	81	88	114	122	63
105°	232	252	282	303	310	246
115°	424	435	463	478	480	420
125°	598	603	624	637	640	534
135°	743	747	753	764	765	573
145°	860	861	861	867	866	538
155°	946	942	943	946	940	436
165°	999	994	995	999	993	282
175°	1021	1017	1018	1024	1017	97
180°	1021	1021	1021	1021	1021	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1059.0	1056.9	1049.7	1056.9	1055.9
5°	1055.9	1053.8	1046.6	1054.9	1053.8
7.5°	1048.7	1047.6	1040.4	1047.6	1046.6
10°	1038.3	1038.3	1030.0	1037.3	1036.2
12.5°	1023.8	1024.8	1018.6	1023.8	1020.7
15°	1008.3	1009.3	1002.1	1008.3	1004.1
17.5°	988.6	990.7	983.4	988.6	985.5
20°	966.9	968.9	961.7	964.8	964.8
22.5°	942.0	946.2	937.9	942.0	938.9
25°	916.2	919.3	913.0	917.2	912.0
27.5°	888.2	892.3	885.1	888.2	886.1
30°	856.1	862.3	856.1	858.2	857.1
32.5°	827.1	832.3	828.2	830.2	829.2
35°	793.0	800.2	797.1	800.2	800.2
37.5°	759.8	766.0	765.0	769.2	768.1
40°	725.7	734.0	732.9	737.1	739.1
42.5°	688.4	699.8	702.9	708.1	708.1
45°	653.2	664.6	669.8	677.0	678.1
47.5°	617.0	627.3	635.6	646.0	648.0
50°	579.7	591.1	602.5	613.9	617.0
52.5°	540.4	554.9	569.4	581.8	583.9
55°	502.1	518.6	535.2	546.6	550.7
57.5°	462.7	482.4	501.0	513.5	516.6
60°	423.4	444.1	464.8	480.3	483.4
62.5°	385.1	405.8	428.6	446.2	450.3
65°	345.8	369.6	394.4	409.9	414.1
67.5°	309.5	332.3	357.1	375.8	381.0
70°	269.2	293.0	319.9	339.5	345.8
72.5°	229.8	254.7	284.7	306.4	310.6
75°	190.5	217.4	250.5	271.2	276.4
77.5°	152.2	183.2	214.3	237.1	241.2
80°	117.0	148.0	183.2	206.0	210.1
82.5°	84.9	118.0	154.2	176.0	184.3
85°	56.9	91.1	127.3	150.1	158.4
87.5°	36.2	69.4	104.6	128.4	135.6
90°	17.4	56.5	97.0	124.6	134.1
92.5°	28.9	52.1	92.8	119.4	127.5
95°	56.7	81.3	87.7	114.2	121.5
97.5°	93.4	122.9	85.0	108.3	116.3
100°	137.8	161.8	198.0	106.9	110.1
102.5°	183.0	205.7	239.3	261.5	204.1
105°	231.9	251.5	282.5	303.2	309.8
107.5°	282.4	296.9	328.4	349.9	353.0
110°	331.3	343.8	374.3	391.6	399.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.2	389.9	418.5	434.1	439.9
115°	424.1	435.2	462.9	478.5	480.1
117.5°	472.4	477.6	506.4	519.4	525.2
120°	517.8	520.1	546.2	562.3	564.7
122.5°	556.8	561.7	585.3	600.2	601.9
125°	598.5	602.8	623.5	637.0	639.9
127.5°	637.6	640.4	657.2	671.2	671.3
130°	673.9	676.7	692.0	704.2	705.5
132.5°	709.3	713.8	721.8	736.3	736.8
135°	743.3	746.8	752.6	764.5	765.1
137.5°	775.1	778.6	781.3	793.7	794.0
140°	805.1	806.6	806.9	819.9	819.4
142.5°	833.1	832.9	834.4	843.7	843.3
145°	860.4	860.9	860.9	866.8	866.4
147.5°	883.6	883.6	884.3	887.2	883.9
150°	906.3	904.8	906.3	907.8	902.8
152.5°	928.3	924.5	926.0	927.5	922.2
155°	946.4	941.9	943.4	945.7	939.6
157.5°	960.8	958.5	958.5	960.8	954.8
160°	976.0	971.4	972.2	975.2	969.1
162.5°	988.1	983.5	984.3	988.8	982.0
165°	998.7	994.1	994.9	999.4	993.4
167.5°	1007.0	1002.5	1003.2	1008.5	1001.7
170°	1013.8	1008.5	1009.3	1015.3	1008.5
172.5°	1018.4	1013.1	1014.6	1019.9	1013.1
175°	1021.4	1016.8	1017.6	1023.7	1016.8
177.5°	1023.7	1019.1	1019.9	1025.2	1019.1
180°	1021.4	1021.4	1021.4	1021.4	1021.4

(END OF REPORT)