

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: P1028404

Luminaire Tested: S125DIP-B850D850UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028404
REPORT IS A COMBINATION OF REPORTS P1002706 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D850UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

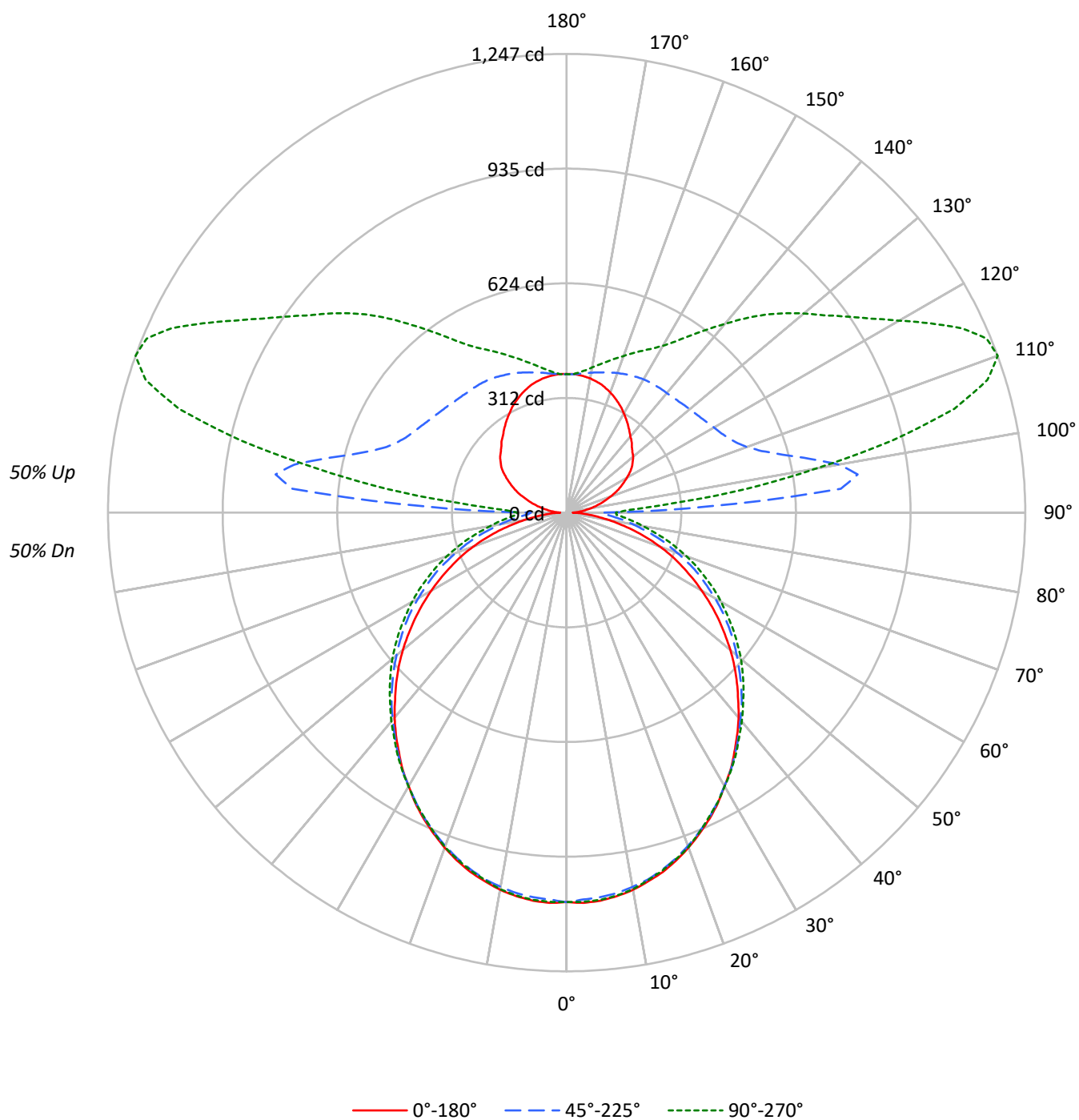
Lumens per Lamp: N/A
Luminaire Lumens: 6115.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	99	99	99	99	84	84	84	69	69	69	56	56	56
1	97	92	88	85	89	85	82	79	72	69	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	53	41	34	29	36	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.6
10°-20°	284.4	4.7
20°-30°	422.9	6.9
30°-40°	500.9	8.2
40°-50°	517.8	8.5
50°-60°	477.0	7.8
60°-70°	385.6	6.3
70°-80°	258.0	4.2
80°-90°	134.9	2.2
90°-100°	358.7	5.9
100°-110°	644.4	10.5
110°-120°	587.3	9.6
120°-130°	466.2	7.6
130°-140°	366.9	6.0
140°-150°	271.8	4.4
150°-160°	190.1	3.1
160°-170°	112.0	1.8
170°-180°	36.4	0.6
0°-30°	807.6	13.2
0°-40°	1308.5	21.4
0°-60°	2303.4	37.7
0°-90°	3081.9	50.4
90°-120°	1590.4	26.0
90°-150°	2695.3	44.1
90°-180°	3034.0	49.6
0°-180°	6115.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	17	57	97	125	134	13
95°	39	114	748	404	284	37
105°	95	146	608	1162	1091	100
115°	160	198	482	1012	1186	157
125°	217	252	448	798	929	192
135°	251	301	429	657	760	195
145°	291	332	422	531	588	182
155°	331	356	412	465	485	152
165°	361	371	395	419	425	102
175°	376	376	379	383	382	36
180°	377	377	377	377	377	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.4	56.6	97.2	125.0	133.8
92.5°	25.9	106.8	383.9	184.6	167.3
95°	38.6	114.5	748.5	403.8	284.3
97.5°	51.2	117.5	798.2	644.6	491.7
100°	64.5	125.1	752.0	867.2	686.7
102.5°	79.5	135.2	675.8	1054.8	906.2
105°	95.1	146.0	607.5	1161.7	1091.1
107.5°	110.0	158.3	556.3	1189.0	1199.8
110°	126.5	171.5	521.0	1153.8	1247.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	144.0	184.8	498.6	1086.0	1236.0
115°	159.6	198.4	482.4	1011.6	1186.0
117.5°	173.8	212.4	471.3	942.7	1114.3
120°	188.9	226.6	462.7	885.0	1043.9
122.5°	203.9	239.4	454.7	836.8	981.0
125°	216.8	252.2	447.6	798.2	928.7
127.5°	226.3	265.6	441.8	763.4	881.2
130°	236.2	279.2	437.2	729.2	841.9
132.5°	242.8	291.4	433.1	692.8	802.5
135°	251.1	300.6	428.9	656.9	760.4
137.5°	261.8	310.0	426.6	620.4	715.7
140°	269.8	318.0	424.2	586.8	669.8
142.5°	280.4	324.6	422.9	557.1	627.0
145°	291.0	332.2	422.1	531.0	587.8
147.5°	301.4	339.0	420.6	508.9	551.6
150°	311.3	345.0	418.3	491.2	523.4
152.5°	321.9	351.2	415.3	478.0	502.6
155°	331.0	356.1	411.5	465.0	485.2
157.5°	339.4	361.0	407.7	452.9	469.2
160°	347.7	364.8	403.9	440.8	453.3
162.5°	354.6	368.6	399.4	429.8	438.8
165°	361.4	371.2	394.8	418.7	425.2
167.5°	366.0	372.8	390.2	408.5	412.3
170°	370.5	374.6	386.5	398.6	400.9
172.5°	373.5	375.5	381.9	390.6	390.2
175°	375.8	375.8	378.9	383.4	381.9
177.5°	377.3	375.8	376.6	378.9	376.6
180°	376.6	376.6	376.6	376.6	376.6

(END OF REPORT)