

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: P1028357

Luminaire Tested: S125DIP-B850D610UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028357
REPORT IS A COMBINATION OF REPORTS P1002644 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

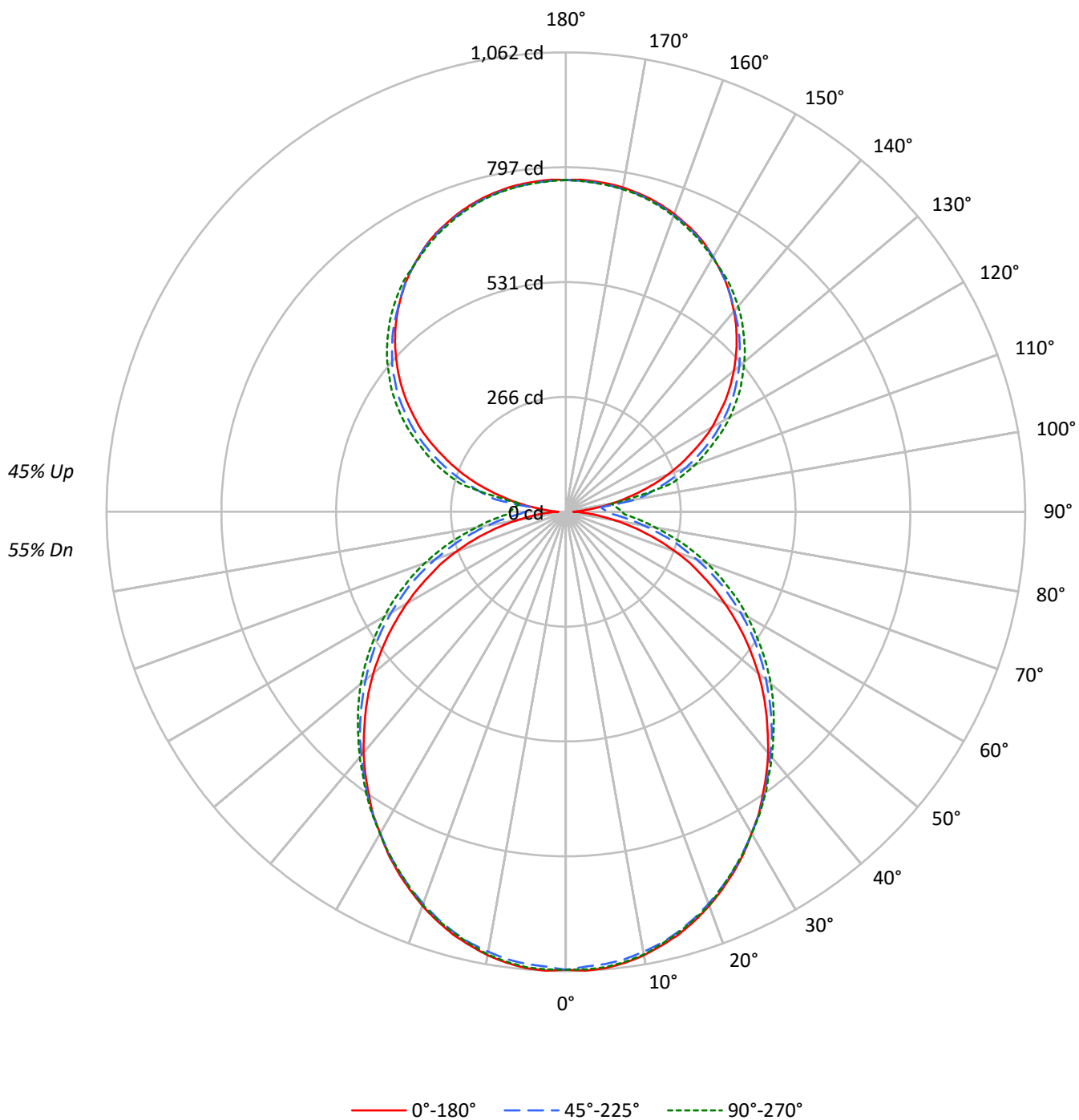
Lumens per Lamp: N/A
Luminaire Lumens: 5637.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	51	49
2	89	81	75	69	82	75	70	65	65	60	56	55	51	49	45	43	41
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	35
4	74	63	54	48	68	58	51	45	50	44	40	43	38	35	36	32	30
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	28	26
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	26	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	24	21	18
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	15

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	1.8
10°-20°	284.4	5.0
20°-30°	422.9	7.5
30°-40°	500.9	8.9
40°-50°	517.8	9.2
50°-60°	477.0	8.5
60°-70°	385.6	6.8
70°-80°	258.0	4.6
80°-90°	134.5	2.4
90°-100°	101.1	1.8
100°-110°	228.5	4.1
110°-120°	348.8	6.2
120°-130°	421.1	7.5
130°-140°	439.5	7.8
140°-150°	405.7	7.2
150°-160°	326.7	5.8
160°-170°	211.3	3.7
170°-180°	72.9	1.3
0°-30°	807.6	14.3
0°-40°	1308.5	23.2
0°-60°	2303.4	40.9
0°-90°	3081.6	54.7
90°-120°	678.4	12.0
90°-150°	1944.6	34.5
90°-180°	2555.0	45.3
0°-180°	5637.0	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	55	94	121	130	13
95°	46	71	85	110	118	50
105°	176	195	226	247	254	187
115°	320	330	358	374	377	317
125°	450	453	474	488	492	402
135°	559	561	567	580	581	431
145°	646	646	646	652	653	404
155°	711	707	708	710	706	327
165°	750	746	747	750	746	212
175°	767	764	764	769	764	73
180°	767	767	767	767	767	

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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°	17.2	54.9	94.2	120.9	129.9
92.5°	25.3	50.3	90.1	115.7	123.6
95°	45.9	71.2	84.9	110.5	117.8
97.5°	73.3	101.6	81.8	104.8	112.6
100°	106.3	129.8	165.3	102.4	106.4
102.5°	140.0	162.0	195.3	217.2	175.7
105°	176.4	195.4	226.5	247.3	254.0
107.5°	214.1	228.6	259.8	281.2	285.1
110°	250.6	263.0	293.3	311.3	319.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	285.9	296.9	325.4	341.9	348.0
115°	320.0	330.2	357.7	374.2	376.9
117.5°	356.0	361.2	389.4	403.6	409.7
120°	390.1	392.6	418.2	434.7	438.1
122.5°	419.2	423.1	446.4	461.9	464.8
125°	450.5	453.4	474.2	488.5	492.0
127.5°	479.5	481.4	498.4	512.9	514.5
130°	506.8	508.7	523.7	536.5	538.9
132.5°	533.1	536.5	545.2	559.7	561.0
135°	558.7	561.0	567.2	579.5	581.3
137.5°	582.6	584.9	587.9	600.3	601.7
140°	604.8	605.9	606.4	619.0	619.7
142.5°	625.8	625.4	626.5	635.8	636.6
145°	646.3	646.4	646.4	652.2	652.9
147.5°	663.5	663.5	664.0	666.7	664.8
150°	680.5	679.4	680.5	681.7	678.1
152.5°	697.0	694.2	695.3	696.4	692.5
155°	710.7	707.2	708.4	710.1	705.5
157.5°	721.5	719.7	719.7	721.5	716.9
160°	732.8	729.4	730.0	732.3	727.7
162.5°	741.9	738.5	739.1	742.5	737.4
165°	749.9	746.5	747.0	750.4	745.9
167.5°	756.1	752.7	753.3	757.3	752.2
170°	761.2	757.3	757.8	762.4	757.3
172.5°	764.7	760.7	761.8	765.8	760.7
175°	766.9	763.5	764.1	768.6	763.5
177.5°	768.6	765.2	765.8	769.8	765.2
180°	766.9	766.9	766.9	766.9	766.9

(END OF REPORT)