

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: P1028269

Luminaire Tested: S125DIP-B850D1270UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028269
REPORT IS A COMBINATION OF REPORTS P1002526 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB40-4F0-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

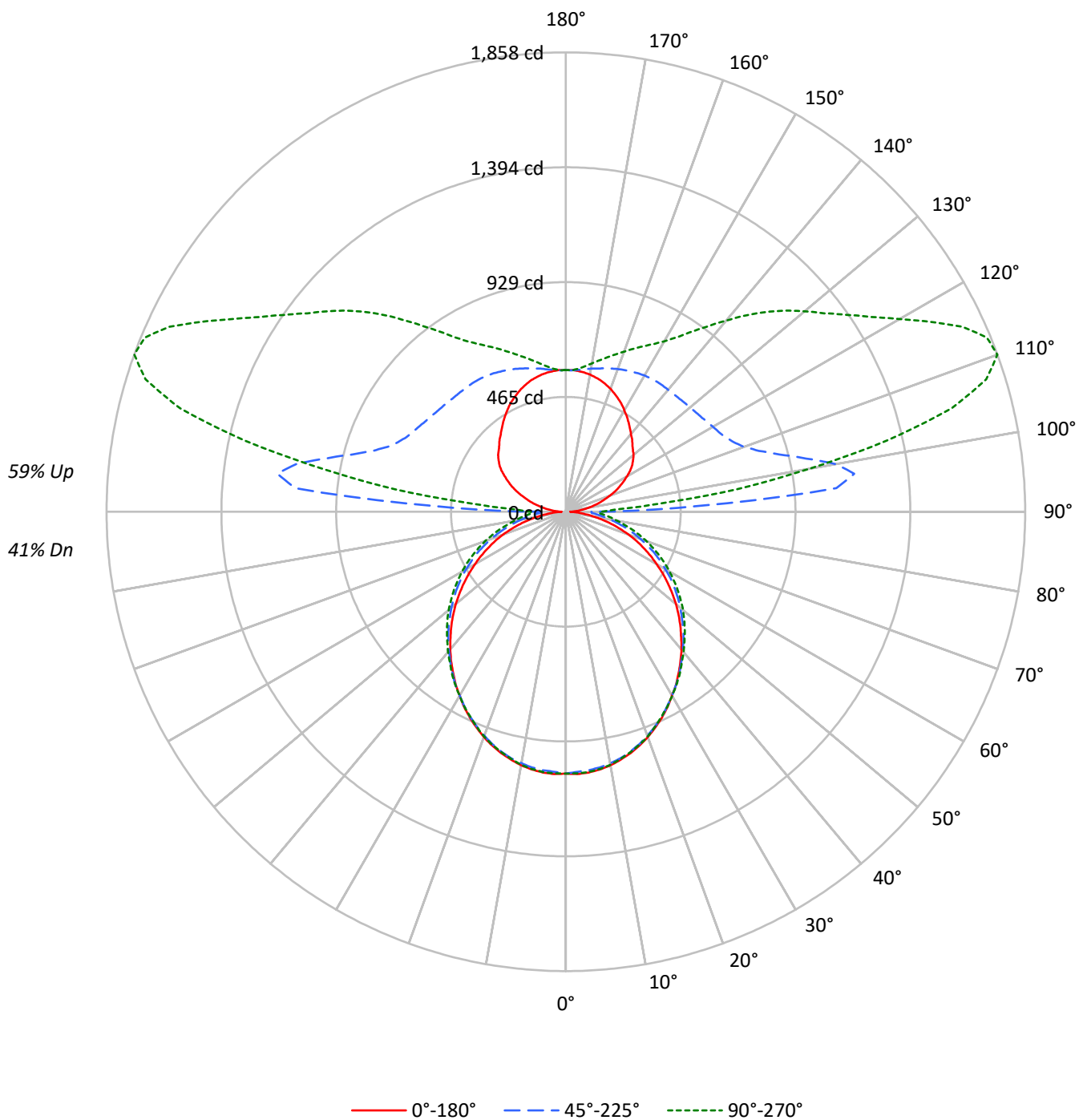
Lumens per Lamp: N/A
Luminaire Lumens: 7592.8 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	1.3
10°-20°	284.4	3.7
20°-30°	422.9	5.6
30°-40°	500.9	6.6
40°-50°	517.8	6.8
50°-60°	477.0	6.3
60°-70°	385.6	5.1
70°-80°	258.0	3.4
80°-90°	135.7	1.8
90°-100°	506.4	6.7
100°-110°	951.2	12.5
110°-120°	873.8	11.5
120°-130°	698.1	9.2
130°-140°	553.2	7.3
140°-150°	412.4	5.4
150°-160°	289.1	3.8
160°-170°	170.4	2.2
170°-180°	55.4	0.7
0°-30°	807.6	10.6
0°-40°	1308.5	17.2
0°-60°	2303.4	30.3
0°-90°	3082.7	40.6
90°-120°	2331.5	30.7
90°-150°	3995.2	52.6
90°-180°	4510.0	59.4
0°-180°	7592.8	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°	18	60	104	133	143	14
95°	52	153	1099	563	377	50
105°	140	208	894	1726	1615	147
115°	239	295	712	1508	1770	236
125°	328	382	668	1193	1389	291
135°	381	456	648	988	1142	296
145°	442	505	642	805	889	277
155°	503	542	626	707	738	232
165°	550	565	600	637	647	155
175°	572	572	576	583	581	54
180°	573	573	573	573	573	

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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°	17.8	60.2	103.6	133.2	142.9
92.5°	31.8	139.3	541.7	226.8	196.5
95°	51.6	153.1	1098.9	562.8	377.3
97.5°	71.4	159.2	1176.6	931.7	695.4
100°	92.2	172.9	1109.1	1273.0	995.2
102.5°	115.5	190.0	995.3	1561.0	1331.7
105°	139.8	208.4	894.2	1726.2	1615.1
107.5°	163.0	228.9	818.5	1769.9	1783.1
110°	188.6	250.6	767.0	1719.2	1857.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.1	272.4	735.1	1618.6	1843.0
115°	239.4	294.6	712.5	1507.8	1769.7
117.5°	261.5	317.5	697.9	1405.6	1662.8
120°	284.6	340.2	686.9	1320.0	1558.3
122.5°	307.9	361.4	676.9	1249.6	1465.4
125°	327.5	381.8	668.2	1192.8	1388.6
127.5°	342.6	402.8	661.7	1142.6	1318.6
130°	357.6	423.6	656.3	1092.8	1261.4
132.5°	368.1	442.0	652.2	1039.7	1204.3
135°	380.8	456.5	648.0	987.7	1142.4
137.5°	397.0	471.0	646.1	934.4	1077.2
140°	409.8	483.1	644.1	885.2	1009.5
142.5°	425.9	493.6	643.2	842.4	946.5
145°	442.1	505.2	642.0	804.8	889.2
147.5°	458.4	515.6	639.7	772.8	836.7
150°	473.4	524.8	636.2	747.1	795.4
152.5°	489.6	534.0	631.6	726.9	764.4
155°	503.4	541.6	625.8	707.2	737.8
157.5°	516.1	549.0	620.1	688.8	713.6
160°	528.8	554.8	614.3	670.3	689.3
162.5°	539.2	560.6	607.4	653.6	667.4
165°	549.6	564.7	600.4	636.8	646.6
167.5°	556.6	567.0	593.5	621.2	627.0
170°	563.5	569.8	587.7	606.2	609.7
172.5°	568.1	571.0	580.8	594.1	593.5
175°	571.6	571.6	576.2	583.1	580.8
177.5°	573.9	571.6	572.7	576.2	572.7
180°	572.7	572.7	572.7	572.7	572.7

(END OF REPORT)