

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: P1028268

Luminaire Tested: S125DIP-B850D1270UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028268
REPORT IS A COMBINATION OF REPORTS P1002525 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-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

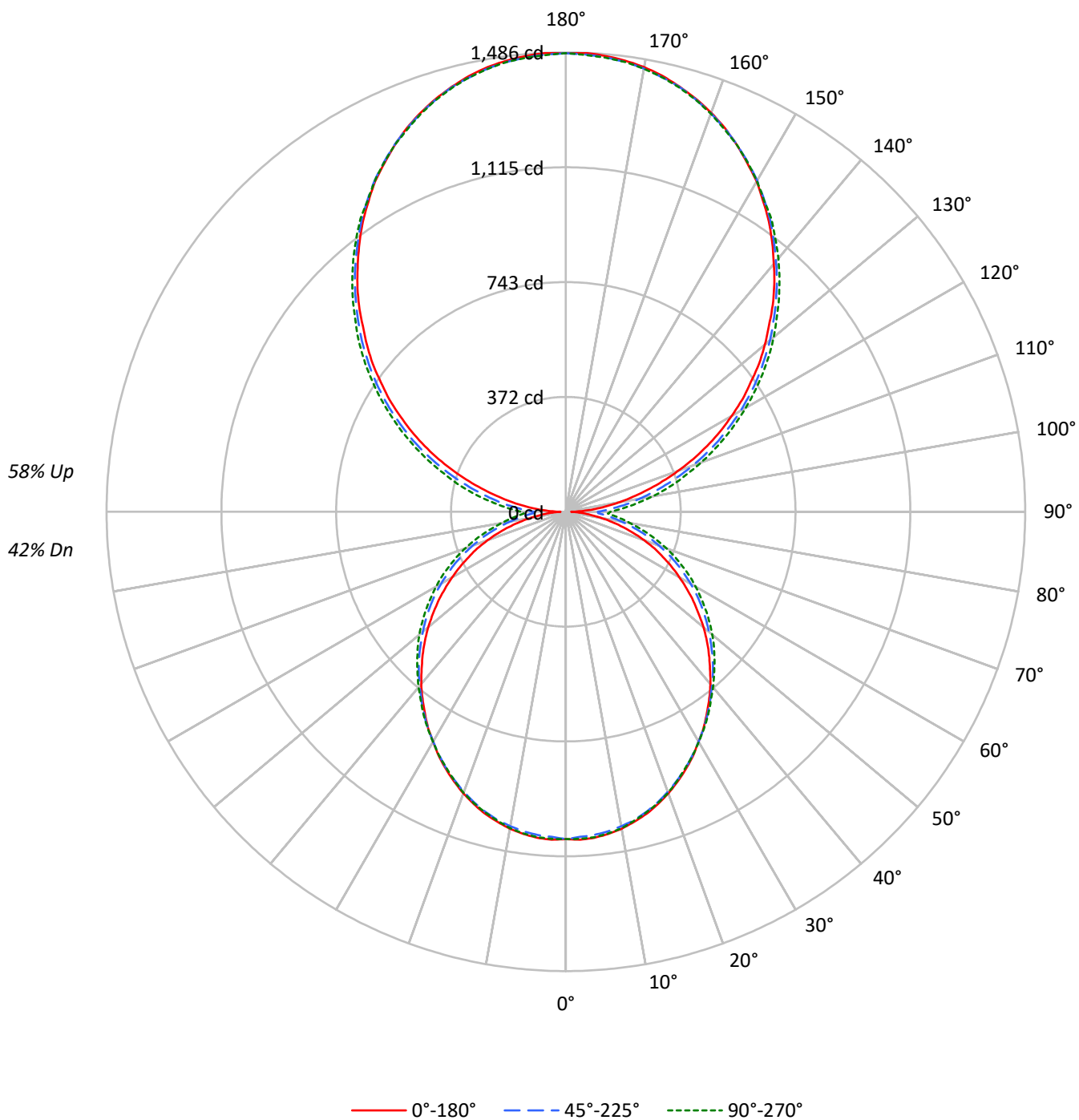
Lumens per Lamp: N/A
Luminaire Lumens: 7423.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	79	79	79	63	63	63	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	53	51	42	41	40
2	86	79	73	67	79	72	67	62	59	55	52	47	45	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	27	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	26	20	17	21	17	14	17	14	12

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	3.8
20°-30°	422.9	5.7
30°-40°	500.9	6.7
40°-50°	517.8	7.0
50°-60°	477.0	6.4
60°-70°	385.6	5.2
70°-80°	258.0	3.5
80°-90°	135.7	1.8
90°-100°	173.8	2.3
100°-110°	348.5	4.7
110°-120°	534.1	7.2
120°-130°	675.4	9.1
130°-140°	742.4	10.0
140°-150°	720.6	9.7
150°-160°	603.7	8.1
160°-170°	401.3	5.4
170°-180°	140.4	1.9
0°-30°	807.6	10.9
0°-40°	1308.5	17.6
0°-60°	2303.4	31.0
0°-90°	3082.7	41.5
90°-120°	1056.4	14.2
90°-150°	3194.8	43.0
90°-180°	4340.0	58.5
0°-180°	7423.0	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°	18	60	104	133	144	17
95°	88	118	165	196	205	89
105°	272	295	333	361	371	291
115°	504	516	545	563	568	499
125°	730	736	758	772	776	654
135°	946	952	961	974	975	730
145°	1145	1149	1152	1158	1158	716
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

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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	144.0
92.5°	49.1	85.0	131.8	162.7	172.3
95°	88.5	117.9	164.7	195.6	205.2
97.5°	128.0	154.0	204.4	233.1	241.6
100°	173.0	194.8	243.1	275.2	283.9
102.5°	221.7	247.2	285.1	317.4	327.1
105°	272.5	295.0	333.0	360.8	371.4
107.5°	328.1	348.4	384.3	408.5	414.7
110°	386.0	404.2	436.7	459.9	466.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.0	457.6	490.3	510.1	515.1
115°	503.8	515.7	545.0	562.6	567.6
117.5°	562.9	569.2	597.4	616.3	618.9
120°	618.3	627.2	652.2	669.8	671.5
122.5°	677.3	679.5	705.7	721.2	724.0
125°	730.4	736.3	758.2	772.5	776.5
127.5°	788.2	790.7	809.4	823.9	827.8
130°	840.2	844.9	861.7	875.1	878.0
132.5°	891.1	901.5	910.8	924.1	924.7
135°	946.5	952.4	960.8	974.3	974.9
137.5°	998.5	1004.3	1010.8	1024.4	1022.8
140°	1047.0	1052.8	1057.4	1071.1	1069.4
142.5°	1096.7	1100.3	1104.9	1115.4	1113.8
145°	1145.2	1148.8	1152.3	1157.5	1158.1
147.5°	1189.2	1192.7	1195.0	1200.5	1193.4
150°	1234.2	1233.1	1237.7	1237.7	1236.4
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)