

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: P1027711

Luminaire Tested: S125DIP-B1270D850UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027711
REPORT IS A COMBINATION OF REPORTS P1001764 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

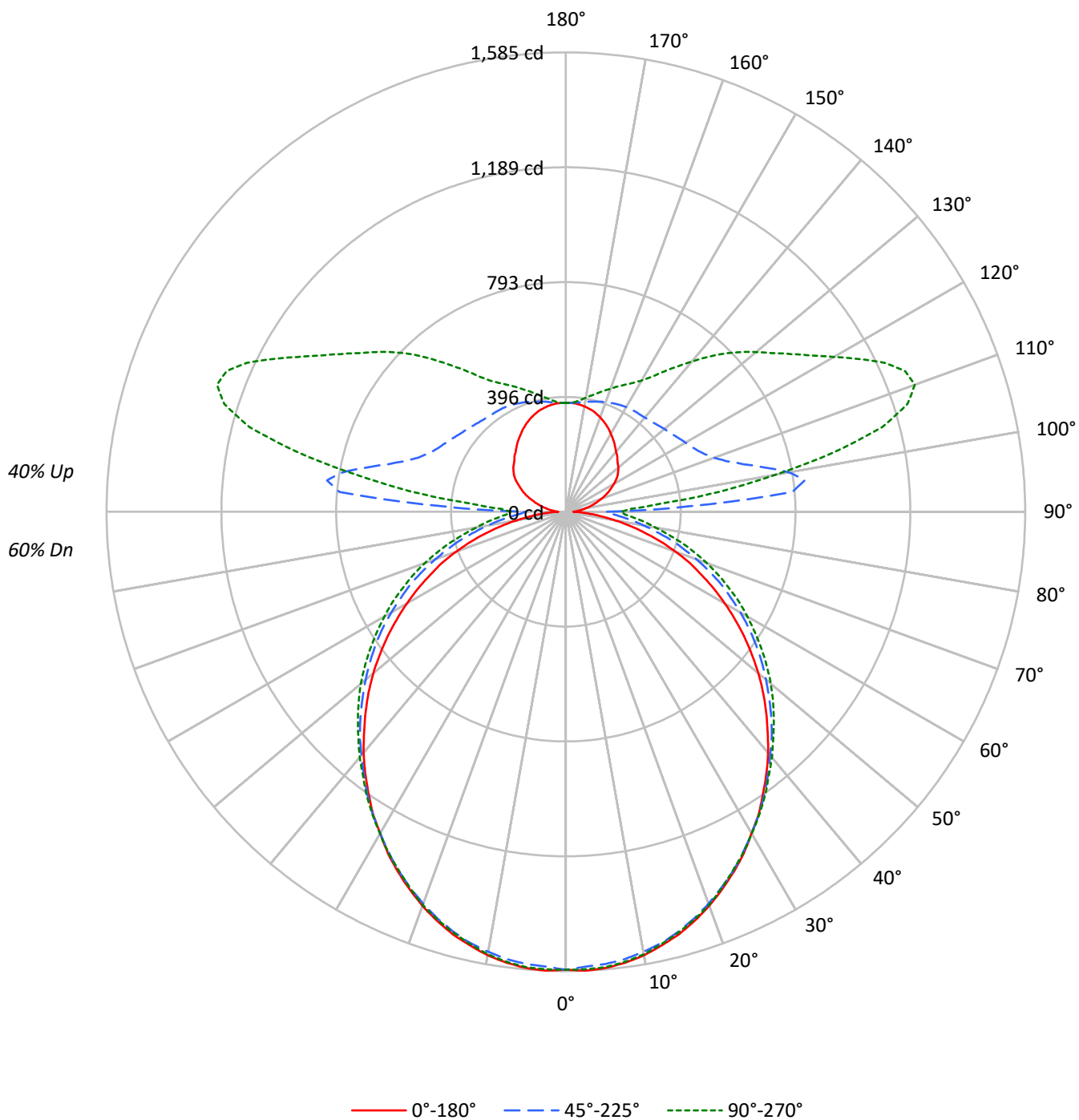
Lumens per Lamp: N/A
Luminaire Lumens: 7722.7 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	99	94	90	86	92	88	84	81	76	74	71	66	64	62	56	54	53
2	90	82	75	70	83	77	71	66	67	62	58	57	54	51	49	46	44
3	82	72	64	58	76	67	60	55	58	53	49	50	46	43	43	40	37
4	75	63	55	49	69	59	52	46	52	46	41	45	40	36	38	35	32
5	69	56	48	42	64	53	45	39	46	40	35	40	35	31	34	31	28
6	63	50	42	36	59	47	40	34	42	35	31	36	31	27	31	27	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	28	24	21
8	54	41	33	28	50	39	32	27	34	28	24	30	25	22	26	22	19
9	50	38	30	25	47	36	29	24	32	26	22	28	23	19	24	20	17
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.9
10°-20°	424.5	5.5
20°-30°	631.2	8.2
30°-40°	747.5	9.7
40°-50°	772.8	10.0
50°-60°	711.9	9.2
60°-70°	575.5	7.5
70°-80°	385.1	5.0
80°-90°	200.5	2.6
90°-100°	394.9	5.1
100°-110°	670.0	8.7
110°-120°	603.9	7.8
120°-130°	475.2	6.2
130°-140°	370.4	4.8
140°-150°	271.9	3.5
150°-160°	189.6	2.5
160°-170°	111.7	1.4
170°-180°	36.3	0.5
0°-30°	1205.2	15.6
0°-40°	1952.7	25.3
0°-60°	3437.5	44.5
0°-90°	4598.7	59.5
90°-120°	1668.9	21.6
90°-150°	2786.4	36.1
90°-180°	3124.0	40.5
0°-180°	7722.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	81	139	179	191	19
95°	45	134	784	452	336	42
105°	100	158	634	1197	1130	105
115°	162	204	501	1038	1215	160
125°	218	253	458	816	949	194
135°	251	300	432	666	772	195
145°	291	331	421	532	591	182
155°	330	355	410	464	484	152
165°	360	370	394	418	424	102
175°	375	375	378	382	381	36
180°	376	376	376	376	376	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.6	81.2	139.1	178.6	190.9
92.5°	33.1	128.7	422.9	235.5	221.8
95°	45.1	134.2	783.9	451.6	335.9
97.5°	57.2	135.7	831.4	689.0	540.2
100°	70.0	141.2	782.8	908.4	731.5
102.5°	84.4	149.8	704.6	1093.0	947.8
105°	99.5	158.3	634.1	1197.0	1130.1
107.5°	113.9	169.2	581.0	1222.2	1236.0
110°	129.7	180.8	543.7	1184.4	1281.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.1	192.5	519.3	1114.3	1267.4
115°	162.2	204.5	501.0	1038.0	1215.1
117.5°	175.8	216.9	488.0	966.8	1141.5
120°	190.9	230.0	477.3	907.2	1068.7
122.5°	205.3	241.2	467.3	856.6	1003.3
125°	218.2	253.0	458.1	815.9	948.7
127.5°	227.2	265.8	450.3	778.8	899.3
130°	237.0	279.5	444.2	742.6	857.5
132.5°	243.1	291.6	438.0	704.2	815.7
135°	251.4	300.2	431.8	665.8	771.7
137.5°	262.0	309.6	427.9	627.4	724.5
140°	269.5	317.6	424.0	591.7	676.6
142.5°	280.1	323.6	421.7	560.2	631.8
145°	290.7	331.2	420.9	532.0	590.8
147.5°	300.6	338.0	419.4	508.4	552.1
150°	310.4	344.1	417.2	489.8	522.4
152.5°	321.0	350.2	414.1	476.6	501.2
155°	330.1	355.1	410.3	463.8	483.8
157.5°	338.4	360.0	406.6	451.6	467.9
160°	346.7	363.8	402.8	439.4	452.0
162.5°	353.6	367.5	398.2	428.5	437.6
165°	360.4	370.2	393.7	417.5	424.0
167.5°	364.9	371.7	389.1	407.3	411.1
170°	369.5	373.6	385.4	397.4	399.7
172.5°	372.5	374.4	380.8	389.5	389.1
175°	374.8	374.8	377.8	382.3	380.8
177.5°	376.3	374.8	375.5	377.8	375.5
180°	375.5	375.5	375.5	375.5	375.5

(END OF REPORT)