

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: P1027665

Luminaire Tested: S125DIP-B1270D610UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027665
REPORT IS A COMBINATION OF REPORTS P1001703 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

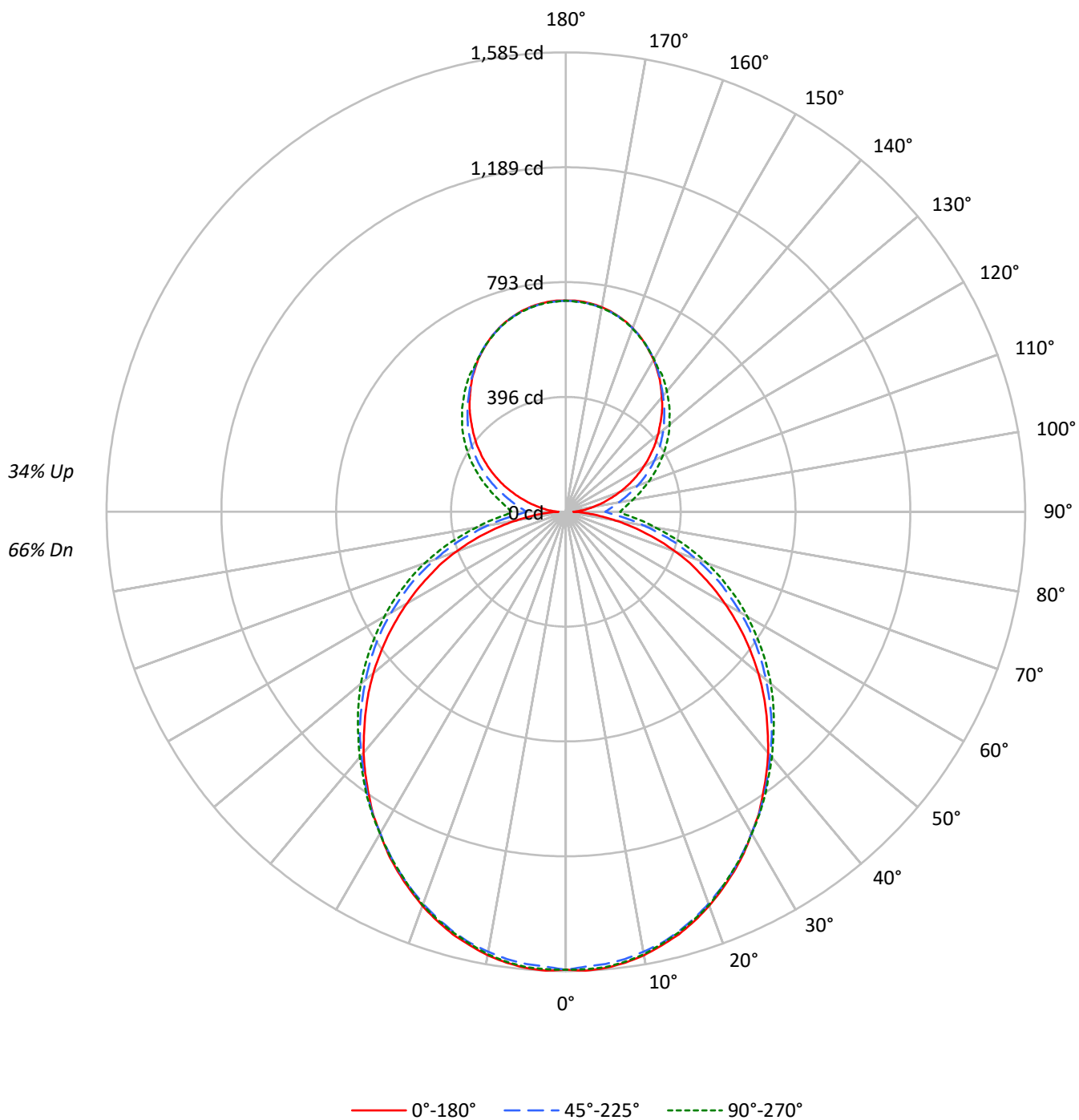
Lumens per Lamp: N/A
Luminaire Lumens: 6929.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66		
1	100	96	91	87	94	90	86	83	80	77	74	70	68	66	61	60	58	54		
2	91	83	76	71	85	78	72	67	69	65	61	61	57	54	53	51	48	44		
3	83	73	65	58	78	69	61	56	61	55	51	54	49	45	47	44	41	37		
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35	32		
5	70	57	48	42	65	54	46	40	48	42	37	43	38	33	38	33	30	27		
6	64	51	43	37	60	49	41	35	43	37	32	39	33	29	34	30	26	24		
7	59	46	38	32	56	44	36	31	39	33	28	35	30	26	31	27	23	21		
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	29	24	21	19		
9	51	38	31	25	48	37	29	24	33	27	23	30	24	21	26	22	19	17		
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15		

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	2.2
10°-20°	424.5	6.1
20°-30°	631.2	9.1
30°-40°	747.5	10.8
40°-50°	772.8	11.2
50°-60°	711.9	10.3
60°-70°	575.5	8.3
70°-80°	385.1	5.6
80°-90°	200.2	2.9
90°-100°	160.6	2.3
100°-110°	226.5	3.3
110°-120°	299.4	4.3
120°-130°	352.6	5.1
130°-140°	373.7	5.4
140°-150°	355.6	5.1
150°-160°	296.4	4.3
160°-170°	197.0	2.8
170°-180°	69.0	1.0
0°-30°	1205.2	17.4
0°-40°	1952.7	28.2
0°-60°	3437.5	49.6
0°-90°	4598.3	66.4
90°-120°	686.4	9.9
90°-150°	1768.3	25.5
90°-180°	2331.0	33.6
0°-180°	6929.0	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°	25	80	136	175	187	20
95°	57	98	157	195	207	54
105°	143	171	221	255	268	153
115°	254	267	308	335	344	251
125°	363	364	396	420	427	325
135°	467	469	480	500	506	360
145°	563	564	566	573	578	352
155°	643	643	643	646	643	296
165°	699	698	698	701	697	197
175°	727	724	724	728	724	69
180°	728	728	728	728	728	

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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°	25.4	79.5	136.1	174.6	187.1
92.5°	38.7	86.4	145.7	183.8	195.8
95°	56.9	98.4	156.7	194.8	206.7
97.5°	75.3	113.1	172.1	208.0	219.5
100°	96.4	129.0	185.8	223.5	234.0
102.5°	119.2	151.5	202.3	239.0	250.0
105°	143.1	170.8	220.7	255.1	267.6
107.5°	169.4	193.9	241.7	274.4	283.7
110°	196.7	218.2	263.3	294.4	304.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	226.2	241.3	285.4	313.9	323.5
115°	253.6	266.7	308.1	335.4	344.2
117.5°	281.5	289.8	329.7	356.6	365.2
120°	308.7	316.2	352.4	378.8	385.8
122.5°	336.7	338.7	374.5	398.8	406.4
125°	362.7	364.5	396.1	419.8	427.0
127.5°	390.0	390.2	417.1	439.8	448.0
130°	415.6	416.9	439.7	460.9	467.4
132.5°	439.6	444.7	459.6	480.7	485.2
135°	466.8	468.6	480.0	500.1	505.7
137.5°	492.3	494.1	501.4	520.6	523.9
140°	515.1	517.9	521.2	539.3	542.7
142.5°	539.4	540.2	542.5	556.9	560.3
145°	563.2	564.0	565.7	573.4	577.9
147.5°	583.8	585.5	586.7	591.5	590.0
150°	605.9	605.4	607.6	607.6	608.0
152.5°	624.1	625.2	625.8	627.5	625.2
155°	642.8	642.8	643.4	645.6	642.8
157.5°	659.8	658.7	659.2	661.5	657.5
160°	674.5	672.8	673.4	675.7	672.8
162.5°	687.6	686.4	686.4	689.3	685.9
165°	698.9	697.8	698.3	700.6	697.2
167.5°	709.1	706.8	706.8	710.2	706.8
170°	717.0	714.8	714.8	718.2	714.2
172.5°	722.7	720.5	720.5	723.9	720.5
175°	726.7	724.4	724.4	727.8	723.9
177.5°	729.5	727.3	726.7	730.1	726.1
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)