

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: P1027442

Luminaire Tested: S125DIP-B1090D610UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027442
REPORT IS A COMBINATION OF REPORTS P1001402 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

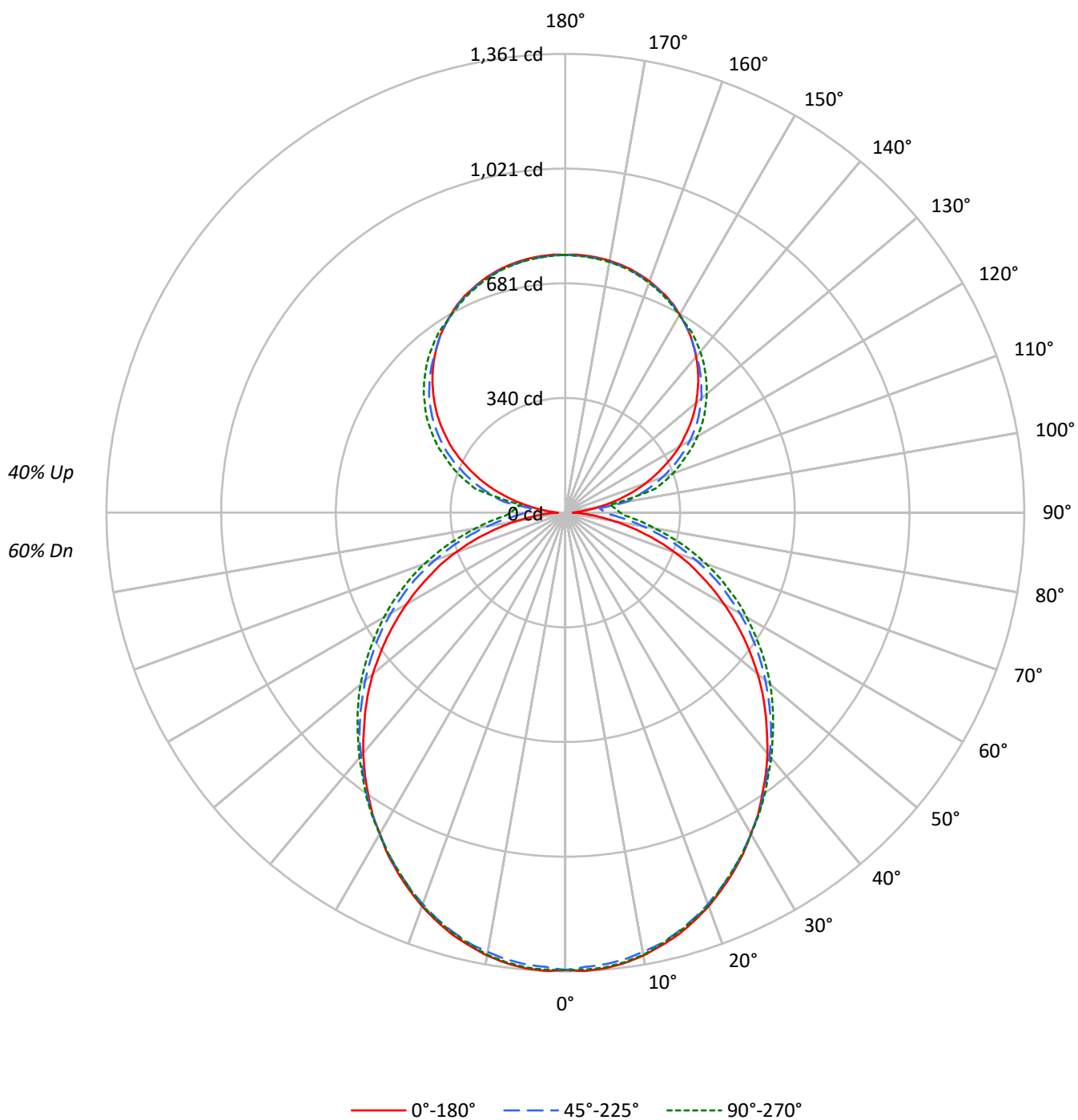
Lumens per Lamp: N/A
Luminaire Lumens: 6554.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V):
Input Current (A_{in}): 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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	99	94	90	86	92	88	85	81	77	74	71	66	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	58	58	54	51	49	47	44
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	43	40	37
4	75	63	55	49	69	59	52	46	52	46	41	45	40	37	39	35	32
5	69	56	48	42	64	53	45	40	46	40	36	40	35	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	27	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17
10	47	35	27	22	44	33	26	21	29	23	20	26	21	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.0
10°-20°	364.6	5.6
20°-30°	542.1	8.3
30°-40°	642.0	9.8
40°-50°	663.7	10.1
50°-60°	611.4	9.3
60°-70°	494.3	7.5
70°-80°	330.7	5.0
80°-90°	172.1	2.6
90°-100°	122.3	1.9
100°-110°	243.6	3.7
110°-120°	358.3	5.5
120°-130°	425.8	6.5
130°-140°	440.8	6.7
140°-150°	405.0	6.2
150°-160°	325.7	5.0
160°-170°	210.6	3.2
170°-180°	72.6	1.1
0°-30°	1035.1	15.8
0°-40°	1677.1	25.6
0°-60°	2952.3	45.0
0°-90°	3949.3	60.3
90°-120°	724.1	11.0
90°-150°	1995.7	30.4
90°-180°	2605.0	39.7
0°-180°	6554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	69	118	152	163	16
95°	50	82	106	138	148	53
105°	179	202	242	269	277	189
115°	321	333	368	390	394	318
125°	450	453	480	499	504	402
135°	558	560	568	584	587	430
145°	645	644	644	652	654	403
155°	708	705	706	708	703	326
165°	748	744	745	748	744	211
175°	765	761	762	766	761	73
180°	765	765	765	765	765	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	21.9	69.0	118.2	151.6	162.6
92.5°	29.4	62.9	112.9	144.9	154.9
95°	49.6	82.5	106.2	138.3	147.6
97.5°	76.7	112.0	102.0	131.0	141.0
100°	109.3	139.0	183.8	127.3	133.0
102.5°	142.5	170.1	212.4	240.2	200.6
105°	178.6	202.2	242.1	268.7	277.4
107.5°	215.8	234.5	274.2	301.4	307.0
110°	251.9	267.9	306.2	329.8	339.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.0	300.7	337.2	358.9	367.1
115°	320.9	333.0	368.2	389.8	394.4
117.5°	356.4	363.0	398.6	417.8	426.0
120°	390.4	393.8	426.1	447.6	452.7
122.5°	419.1	423.3	453.1	473.3	477.9
125°	450.3	452.9	479.5	498.6	503.5
127.5°	479.0	480.5	502.6	521.3	524.8
130°	506.2	507.7	526.9	543.8	547.7
132.5°	532.1	535.5	547.1	565.7	568.2
135°	557.6	559.6	567.8	584.0	587.3
137.5°	581.4	583.4	587.7	603.6	606.1
140°	603.3	604.4	605.2	621.0	622.9
142.5°	624.2	623.5	624.6	636.6	638.5
145°	644.7	644.5	644.5	651.8	653.7
147.5°	661.5	661.5	662.1	665.3	664.0
150°	678.5	677.4	678.5	679.6	676.4
152.5°	694.9	692.1	693.2	694.4	690.4
155°	708.5	705.1	706.3	708.0	703.4
157.5°	719.3	717.6	717.6	719.3	714.8
160°	730.6	727.2	727.8	730.1	725.5
162.5°	739.7	736.3	736.9	740.3	735.2
165°	747.7	744.3	744.8	748.2	743.7
167.5°	753.9	750.5	751.1	755.0	749.9
170°	759.0	755.0	755.6	760.1	755.0
172.5°	762.4	758.4	759.6	763.5	758.4
175°	764.7	761.3	761.8	766.4	761.3
177.5°	766.4	763.0	763.5	767.5	763.0
180°	764.7	764.7	764.7	764.7	764.7

(END OF REPORT)