

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: P1027895

Luminaire Tested: S125DIP-B375D610UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027895
REPORT IS A COMBINATION OF REPORTS P1002026 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

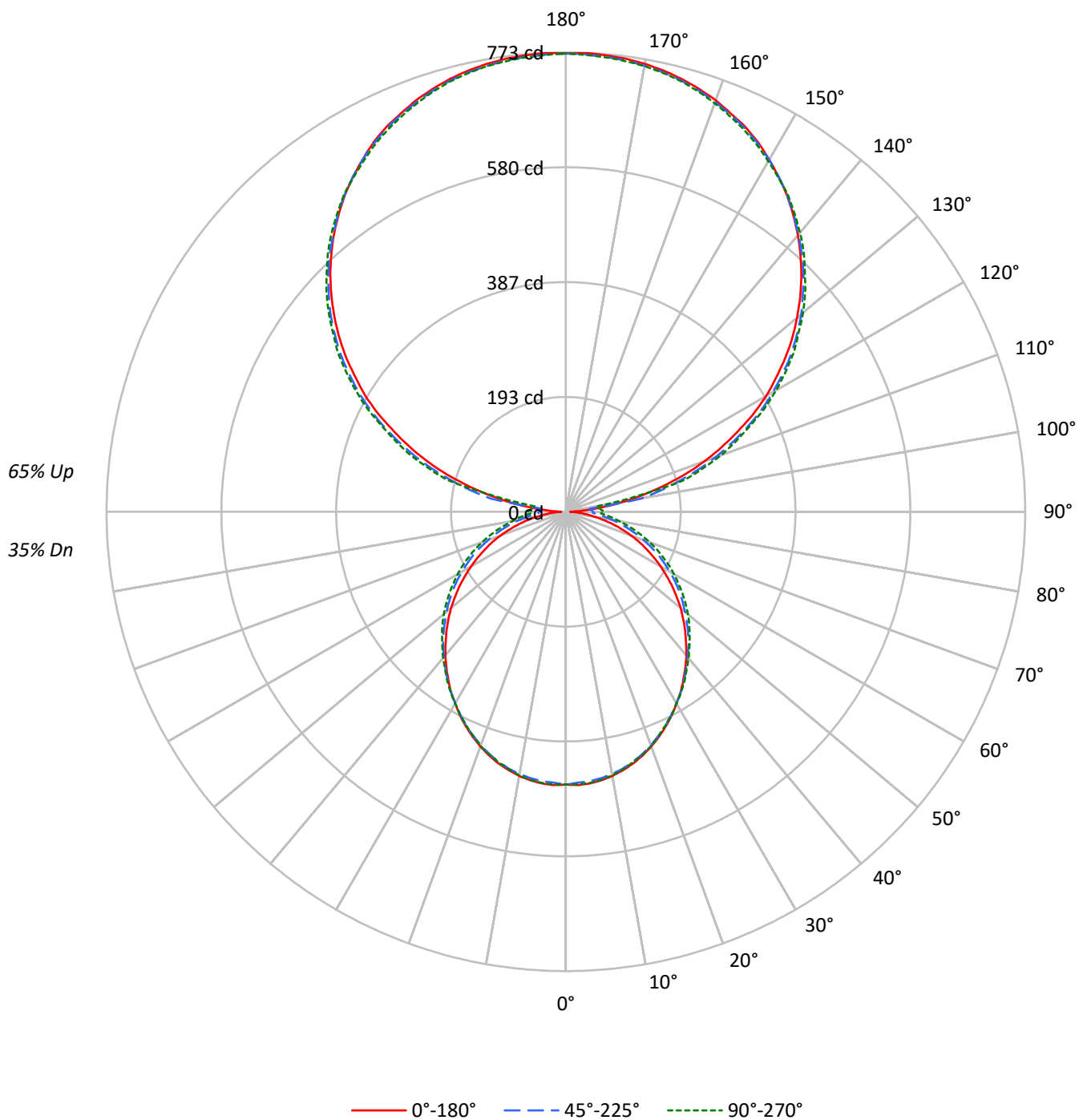
Lumens per Lamp: N/A
Luminaire Lumens: 3792.2 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	94	89	85	82	85	81	78	75	65	63	60	50	49	47	37	36	35
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29
3	78	68	61	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	55	48	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	49	41	36	39	34	30	31	27	24	23	20	18
6	60	48	40	34	54	43	36	31	35	30	26	28	24	21	20	18	16
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.1
10°-20°	123.3	3.3
20°-30°	183.4	4.8
30°-40°	217.2	5.7
40°-50°	224.5	5.9
50°-60°	206.8	5.5
60°-70°	167.2	4.4
70°-80°	111.9	3.0
80°-90°	59.0	1.6
90°-100°	58.8	1.5
100°-110°	198.1	5.2
110°-120°	329.5	8.7
120°-130°	411.4	10.8
130°-140°	436.7	11.5
140°-150°	406.9	10.7
150°-160°	328.5	8.7
160°-170°	212.4	5.6
170°-180°	73.3	1.9
0°-30°	350.1	9.2
0°-40°	567.3	15.0
0°-60°	998.6	26.3
0°-90°	1336.7	35.2
90°-120°	586.4	15.5
90°-150°	1841.4	48.6
90°-180°	2456.0	64.8
0°-180°	3792.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	27	46	59	64	7
95°	38	48	42	55	58	45
105°	172	182	195	204	207	182
115°	318	324	337	342	342	316
125°	451	454	463	468	469	402
135°	561	564	566	570	569	432
145°	649	650	650	653	651	406
155°	715	711	712	714	709	329
165°	754	751	751	755	750	213
175°	771	768	768	773	768	73
180°	771	771	771	771	771	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	7.8	26.7	46.0	59.3	64.1
92.5°	17.2	25.1	44.2	57.0	60.8
95°	38.5	48.5	42.0	54.8	57.9
97.5°	66.6	80.8	41.4	51.9	55.7
100°	100.5	111.6	128.3	52.6	53.0
102.5°	134.8	145.7	160.8	170.9	125.6
105°	172.2	181.7	195.2	204.2	206.7
107.5°	210.5	216.8	231.1	240.7	241.1
110°	247.9	253.3	267.0	273.8	277.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.3	289.0	301.8	307.6	309.6
115°	318.3	324.3	336.6	342.4	341.7
117.5°	355.0	357.2	370.8	375.0	377.0
120°	389.3	390.0	402.2	408.6	408.5
122.5°	419.1	422.5	432.9	439.0	438.3
125°	450.6	454.2	463.2	468.1	468.6
127.5°	480.4	482.8	489.9	495.5	493.6
130°	507.9	510.2	517.1	521.7	521.1
132.5°	534.8	538.3	541.0	547.3	546.3
135°	560.6	563.6	565.5	570.3	569.1
137.5°	584.6	587.6	588.2	593.6	592.6
140°	607.6	608.7	608.6	614.7	613.1
142.5°	628.8	628.8	630.0	634.1	632.4
145°	649.3	650.0	650.0	652.8	651.2
147.5°	667.1	667.1	667.7	669.2	666.1
150°	684.3	683.1	684.3	685.4	681.3
152.5°	700.9	698.0	699.1	700.3	696.3
155°	714.6	711.1	712.3	714.0	709.4
157.5°	725.4	723.7	723.7	725.4	720.9
160°	736.9	733.4	734.0	736.3	731.7
162.5°	746.0	742.6	743.2	746.6	741.4
165°	754.0	750.6	751.2	754.6	750.0
167.5°	760.3	756.9	757.4	761.4	756.3
170°	765.4	761.4	762.0	766.6	761.4
172.5°	768.9	764.9	766.0	770.0	764.9
175°	771.2	767.7	768.3	772.9	767.7
177.5°	772.9	769.5	770.0	774.0	769.5
180°	771.2	771.2	771.2	771.2	771.2

(END OF REPORT)