

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: P1028093

Luminaire Tested: S125DIP-B610D375UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028093
REPORT IS A COMBINATION OF REPORTS P1002287 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

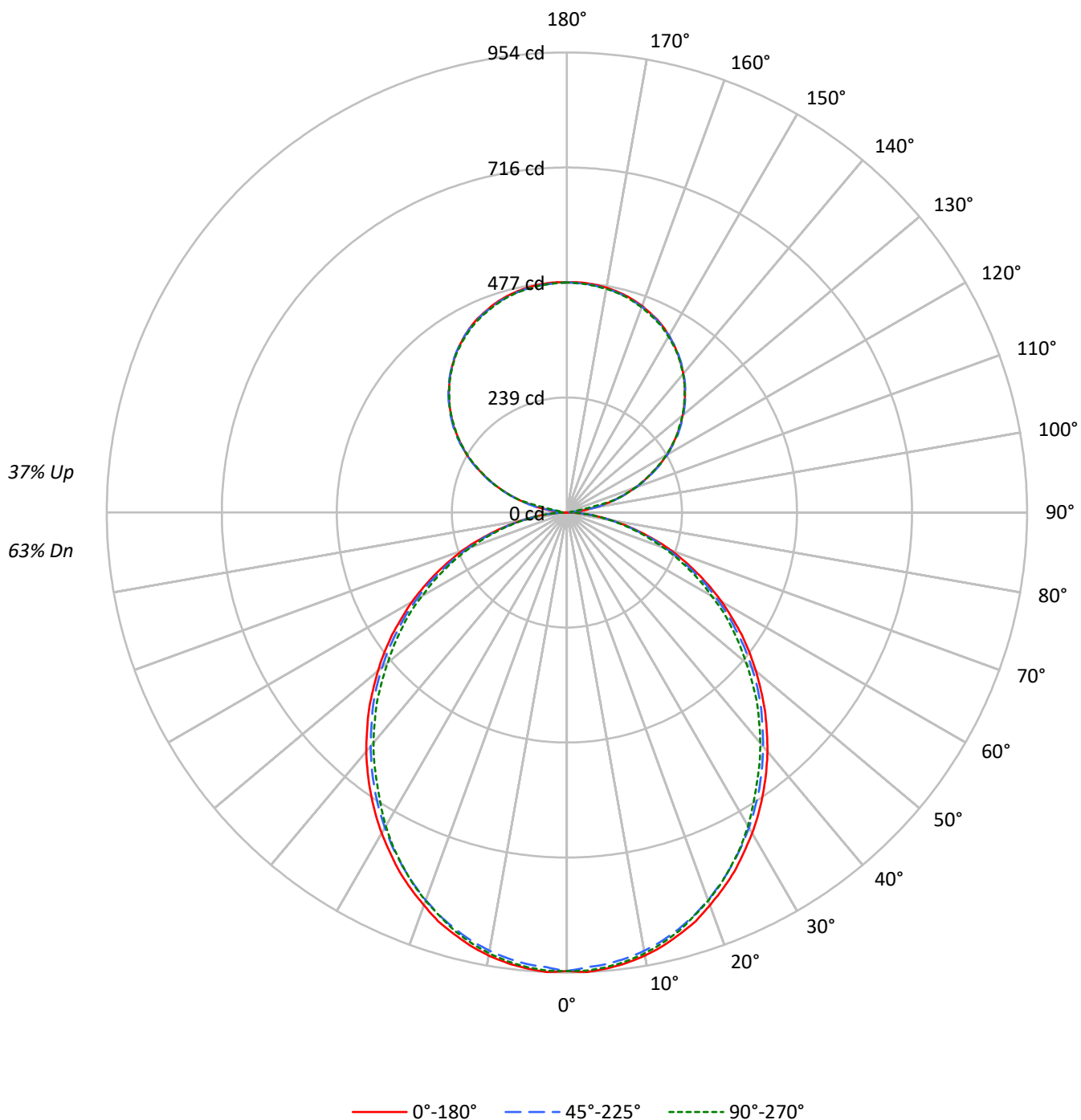
Lumens per Lamp: N/A
Luminaire Lumens: 3941.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	59	57
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	47	44	41
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	38	34	31
6	65	52	44	38	61	49	42	36	44	38	33	39	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24
8	56	43	35	30	52	41	34	28	36	30	26	32	27	24	29	25	22
9	52	39	32	27	49	37	30	26	34	28	23	30	25	21	26	22	20
10	49	36	29	24	46	34	28	23	31	25	21	28	23	19	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	2.3
10°-20°	253.5	6.4
20°-30°	374.2	9.5
30°-40°	436.6	11.1
40°-50°	438.5	11.1
50°-60°	384.9	9.8
60°-70°	286.7	7.3
70°-80°	163.7	4.2
80°-90°	48.0	1.2
90°-100°	16.2	0.4
100°-110°	107.7	2.7
110°-120°	193.9	4.9
120°-130°	248.8	6.3
130°-140°	267.6	6.8
140°-150°	251.2	6.4
150°-160°	203.2	5.2
160°-170°	131.4	3.3
170°-180°	45.3	1.1
0°-30°	717.4	18.2
0°-40°	1154.0	29.3
0°-60°	1977.3	50.2
0°-90°	2475.7	62.8
90°-120°	317.7	8.1
90°-150°	1085.4	27.5
90°-180°	1465.0	37.2
0°-180°	3941.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	0	3	6	7	8	4
95°	20	19	6	7	7	25
105°	104	105	105	105	105	110
115°	195	197	197	196	194	194
125°	278	280	280	279	278	248
135°	346	348	348	347	345	267
145°	401	402	402	402	400	251
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	0.4	3.2	5.7	7.4	8.5
92.5°	6.7	3.5	5.7	7.4	7.8
95°	20.2	19.1	5.7	7.4	7.4
97.5°	37.8	40.0	6.4	7.1	7.4
100°	59.1	60.1	61.5	8.8	7.4
102.5°	80.6	82.0	82.7	83.5	53.7
105°	104.0	105.4	105.4	105.4	105.0
107.5°	128.0	128.0	128.7	129.1	127.7
110°	151.3	151.3	152.1	151.0	151.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.3	174.3	174.7	173.3	172.6
115°	195.2	197.0	197.3	195.9	193.8
117.5°	218.2	218.2	219.6	217.5	216.8
120°	239.4	239.0	240.1	239.4	237.6
122.5°	258.1	259.9	260.3	259.5	257.4
125°	277.6	280.1	280.1	278.6	277.6
127.5°	296.3	298.1	297.7	297.0	294.2
130°	313.3	315.1	315.4	314.4	312.6
132.5°	330.3	332.4	331.3	331.3	329.6
135°	346.2	348.3	347.6	346.9	344.8
137.5°	361.0	363.2	362.4	362.4	360.7
140°	375.5	376.2	375.9	376.6	374.5
142.5°	388.6	389.0	389.7	389.7	387.6
145°	401.3	402.1	402.1	402.4	400.3
147.5°	412.7	412.7	413.0	413.4	410.9
150°	423.3	422.6	423.3	424.0	421.1
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)